RULE 10-I

Oral authorization and acknowledgments between Foremen and Engineers for trains to pass "Red Conditional Stop" signs must be worded in the following forms:

Foreman's Response

"THIS IS S.P. FOREMAN IN CHARGE OF THE WORK BETWEEN MP ____ AND MP ____ S.P. TRAIN ORDER NO. ____. WE ARE IN THE CLEAR AND YOU MAY PROCEED PAST THE RED CONDITIONAL STOP SIGN AND THROUGH THE LIMITS OF THE ORDER AT ____ M.P.H."

Engineer's Response

"THIS IS ENGINEER S.P. TRAIN ____. I MAY PROCEED PAST THE RED CONDITIONAL STOP SIGN AND THROUGH THE LIMITS OF ORDER NO. ____ BETWEEN MP ____ AND MP ____ AT (Speed). **REPEAT** (Speed) **MILES PER HOUR."**

Foreman must acknowledge Engineer's response as follows: **S. P. TRAIN NO. ____, BETWEEN MP ____ AND MP ____,** (Speed) **MILES PER HOUR, OK.**

SPEED TABLE

TIME PER MILE	MILES PER HOUR	TIME PER MILE	MILES PER HOUR
41″	87.8	1′11″	50.7
42″	85.7	1′12″	50
43″	83.7	1′13″	49.3
44″	81.8	1′14″	48.6
45″	80	1′15″	48
46″	78.3	1′16″	47.4
47″	76.6	1′17″	46.8
48″	75	1′18″	46.2
49″	73.5	1′19″	45.6
50″	72	1′20″	45
51″	70.6	1′25″	42.4
52″	69.2	1′30″	40
53″	67.9	1′35″	37.9
54″	66.7	1′40″	36
55″	65.5	1′45″	34.3
56″	64.3	1′50″	32.7
57″	63.2	1′55″	31.3
58″	62.1	2′00″	30
59″	61	2′15″	26.7
1′00″	60	2′30″	24
1′01″	59	2′45″	21.8
1′02″	58.1	3′00″	20
1′03″	57.1	3′30″	17.1
1′04″	56.2	4′00″	15
1′05″	55.4	5′00″	12
1′06″	54.5	6′00″	10
1′07″	53.7	7′00″	8.6
1′08″	52.9	7′30″	8
1′09″	52.2	8′00″	7.5
1′10″	51.4	10′00″	6

SOUTHERN PACIFIC COMPANY

OREGON DIVISION SPECIAL INSTRUCTIONS

No. 3

EFFECTIVE SUNDAY, OCTOBER 30, 1966
AT 12:01 A.M.,
PACIFIC STANDARD TIME

THESE INSTRUCTIONS CONSTITUTE A PART OF THE TIMETABLE CURRENTLY IN EFFECT

M. A. McINTYRE,
General Manager.

R. D. SPENCE,
S. B. BURTON,
Assistant General Managers.

J. P. GRIFFIN,
General Superintendent of Transportation.

J. J. WILLIS,
Superintendent of Transportation.

A. W. KILBORN,
Superintendent.

SOUTHERN PACIFIC MEMORIAL HOSPITAL, INC.

LOCATION	NAME	TITLE
San Francisco	Dr. Vance M. Strange	Chief Surgeon
Ashland	Dr. H. A. Woods	District Physician and Surgeon
Ashland	Dr. John W. Bradshaw	District Physician and Surgeon
Ashland	Dr. B. A. Cope	Oculist and Aurist
Medford	Dr. W. G. Bishop	District Physician and Surgeon
Medford	Dr. J. T. Weisel	Oculist
Medford	Dr. F. C. Lorish	District Physician and Surgeon
Grants Pass	Dr. A. L. Forsgren	District Physician and Surgeon
Grants Pass	Dr. Robert F. Hawley	District Physician and Surgeon
Grants Pass	Dr. W. W. Inkrote	Oculist and Aurist
Myrtle Creek	Dr. C. W. Fletcher	Emergency Surgeon
Roseburg	Dr. R. W. Pearson	District Physician and Surgeon
Roseburg	Dr. Harvey Kring	Oculist and Aurist
Roseburg	Dr. J. E. Campbell	District Pyhsician and Surgeon
Drain	Dr. W. E. Wiltse	Emergency Surgeon
Glendale	Dr. C. L. Plansoen	District Physician and Surgeon
Riddle	Dr. Edwin Everett	Emergency Surgeon
Cottage Grove	Dr. J. T. Abbott	District Physician and Surgeon
Springfield	Dr. Melvin S. Jones	District Physician and Surgeon
Westfir-Oakridge	Dr. Charles F. Holland, Jr.	District Physician and Surgeon
Westfir-Oakridge	Dr. M. W. Poole	Emergency Physician and Surgeon
Eugene	Dr. C. D. Thompson	Division Physician and Surgeon
Eugene	Dr. James Bradley	District Physician and Surgeon
Eugene	Dr. T. M. Lundy	District Physician and Surgeon
Eugene	Dr. W. S. McHolick	District Physician and Surgeon
Eugene	Dr. Thomas Kerns	District Physician and Surgeon
Eugene	Dr. George W. Teller	District Physician and Surgeon
Eugene	Dr. J. W. Bishop	District Physician and Surgeon
Eugene	Dr. L. D. Leslie	District Physician and Surgeon
Eugene	Dr. A. H. Norton	Oculist and Aurist
Eugene	Dr. C. D. Parkinson	Oculist and Aurist
Eugene	Dr. G. Wallace Johansen	Otolaryngologist
Eugene	Dr. H. Anderson, Jr.	District Physician and Surgeon
Junction City	Dr. H. Lee Harris	District Physician and Surgeon
Albany	Dr. G. W. Bohl	District Physician and Surgeon
Albany	Dr. W. H. Alden	District Physician and Surgeon
Salem	Dr. Lucille L. Fortner	District Physician and Surgeon
Salem	Dr. M. K. Crothers	Associate Dist. Physician & Surgeon
Salem	Dr. W. C. Crothers	Asst. Dist. Physician and Surgeon
Salem	Dr. W. W. Baum	Associate Oculist and Aurist
Salem	Dr. W. N. Thompson	Assistant Oculist and Aurist
Salem	Dr. W. A. Fairfax, Jr.	Assistant Oculist and Aurist
Salem	Dr. J. Moreland	Assistant Oculist
Salem	Dr. E. Dunham	Assistant Oculist and Aurist
Woodburn	Dr. Gerald B. Smith	District Physician and Surgeon
Silverton	Dr. V. E. Pettit	Emergency Surgeon
Aurora	Dr. B. F. Giesy	Emergency Surgeon
Canby	Dr. J. F. Dinsmore	Emergency Physician and Surgeon
Hubbard	Dr. Benjamin F. Giesey	Emergency Surgeon
Oregon City	Dr. James H. Gerow	Emergency Surgeon
Oregon City	Dr. H. E. Schlegel, Jr.	Oculist
Oregon City	Dr. E. N. McLean	Oculist
Portland	Dr. A. L. Mundal	Division Physician and Surgeon
Portland	Dr. A. T. Morrison	District Physician and Surgeon
Portland	Dr. Minor Nichols	District Physician and Surgeon
Portland	Dr. Jerome Goldman	Oculist
Oswego	Dr. Wm. H. Cane	Emergency Physician and Surge
Reedsport	Dr. D. L. Courtney	Emergency Physician and Surge
Florence	Dr. N. J. Dunn	Emergency Physician and Surge
North Bend	Dr. Ennis Keizer	District Physician and Surgeon
Coos Bay	Dr. D. S. Johnson	District Physician and Surgeon
Coquille	Dr. P. T. Wolfe	Emergency Surgeon
Myrtle Point	Dr. H. H. Thomas	Emergency Physician and Surge
Mill City	Dr. D. W. Reid	Emergency Physician and Surge
Lebanon	Dr. Norman E. Irvine	District Physician and Surgeon
Brownsville	Dr. B. J. D'Armond	Emergency Surgeon
Toledo	Dr. O. N. Callender	District Physician and Surgeon
Newberg	Dr. C. C. Peterson	Emergency Surgeon
Newberg	Dr. Chester Bump	Emergency Surgeon
Hillsboro	Dr. W. H. Piercy	Emergency Physician and Surge
Hillsboro	Dr. M. J. Robb	Emergency Physician and Surge
Forest Grove	Dr. C. L. Kaufman	District Examiner and Surgeon
McMinnville	Dr. A. G. Noble	Oculist and Aurist
Independence	Dr. Donald H. Searing	District Physician and Surgeon
Independence	Dr. Richard Brust	District Physician and Surgeon
Corvallis	Dr. Waldo W. Ball	District Physician and Surgeon
Corvallis	Dr. Lewis J. Weller	District Physician and Surgeon
Dallas	Dr. E. A. Flaming	Dist. Physician and Surgeon
Wheeler	Dr. J. D. Havschildt	District Physician and Surgeon
McMinnville	Dr. James D. Treneman	Emergency Surgeon
Dunsmuir	Dr. H. B. Chappell	District Physician and Surgeon
Dunsmuir	Dr. J. W. Reynolds	District Physician and Surgeon
Dunsmuir	Dr. H. A. Meredith	Oculist
Mt. Shasta	Dr. J. P. Geyman	District Physician and Surgeon
Weed	Dr. H. L. Vidricksen	Emergency Surgeon
Weed	Dr. Victor J. Thompson	Emergency Surgeon
Klamath Falls	Dr. R. H. Engelcke	District Physician and Surgeon
Klamath Falls	Dr. J. M. Adams	Division Physician and Surgeon
Klamath Falls	Dr. R. W. Stearns	Oculist and Aurist
Klamath Falls	Dr. R. Wayne Esperson	District Physician and Surgeon
Tule Lake	Dr. L. I. Klatt	District Physician and Surgeon
Alturas	Dr. Phillip W. McKenney	Asst. Dist. Physician and Surge
Yreka	Dr. D. L. Meamber	Emergency Surgeon
Susanville	Dr. C. I. Burnett	Asst. Dist. Physician and Surge
Susanville	Dr. K. Korver	Asst. Dist. Physician and Surge
Westwood	Dr. Heyman Levin	District Physician and Surgeon

Note.—Emergency Surgeons should only be summoned for temporary treatme when prompt attention is required and when patients cannot be sent to or await ar val of Division or District Surgeon.

HOSPITALS

S. P. MEMORIAL HOSPITAL	SAN FRANCISCO
GOOD SAMARITAN HOSPITAL	PORTLAND
FIRST AID STATION	BROOKLYN
FIRST AID STATION	EUGENE

WATCH INSPECTORS

San Francisco	K. I. Dunlap, Manager of Time Service, 65 Market St.
Oakridge	P. L. Ashcraft
Springfield	Privats Jewelers. 129 N. 6th St.
Eugene	V. E. Hoffman
Eugene	Olson's
Eugene	Hand's Jewelers, 1035 River Road
Albany	French's
Salem	Jackson Jewelers, 225 N. Libertv St.
Woodburn	Piper's, 429 Front St.
Oregon City	Burmeister & Andreson
Medford	Brophys Jeweler's, 209 E. Main St.
Cottage Grove	Apland's Jewelers, 612 Main St.
Lebanon	Landstrom's, 678 Main St.
Portland	Roy & Molin, 806 S.W. 6th Ave.
Portland	W. R. Johnson, 6680 S.E. Milwaukie Ave.
E. Portland	N. L. Nielsen, 1527 Lloyd Center
Reedsport	H. E. Nickles
North Bend	Roger-Lee Jewelers, R. R. Shiplee
Coos Bay	Hoffman Jewelers, 190 Central Ave.
Coquille	C. C. Canfield
Hillsboro	Abendroth Jeweler's
McMinnville	Hanauer's Jewelry
Toledo	Smith's Jewelers
Corvallis	Konick Jeweler's
Dallas	Brixius Jewelers
Tillamook	McInerney's Jewelers
Dunsmuir	L. L. Huddle
Mt. Shasta	Donald D. Heppner
Weed	Donald D. Heppner
Ashland	Jas. B. Madison, B & J Jewelers
Klamath Falls	J. C. Renie
Alturas	Dale Brown
Lakeview	B. H. Amos
Susanville	Sierra Jewelers

RULE A. Employes must have copy of Rules and Regulations of the Transportation Department effective July 1, 1960, with page revisions as listed on pages 1 and 2 revised April 1, 1961.

RULE M. Employes are warned that it is dangerous to ride on top or sides of cars while passing points where impaired clearance exists, and that they must protect themselves from injury. See list of impaired clearances on main track and sidings.

There are numerous structures with impaired clearance on yard and station tracks on the division, and employes must be familiar with their locations and avoid personal injury.

Employes are prohibited from getting on top of any car not equipped with a roof running board except when necessary to make repairs.

Employes may ride on roof of cars equipped with roof running board when necessary during switching operations, but must not cross from the roof of one car to another while in motion.

Employes must not ride on the top of high-cube excess-height box cars. When such cars are picked up enroute and train length permits, these cars shall be entrained at least five cars ahead of caboose.

RULE 1. Form prescribed for recording variations for Standard Clock at Time Signal has been discontinued.

RULE 7-B. Yardmen must use green flag or light or oral instructions for all train movements to or from yard tracks at Eugene Yard, Albany, Salem, Brooklyn, Ashland, Dunsmuir and Klamath Falls.

RULES 10-G, 10-H and 10-I. When unattended red flags or red lights, yellow signals, red CONDITIONAL STOP signs and yellow PROCEED PREPARED TO STOP signs are displayed between siding switches, they must be duplicated to right of track in direction of approach. If clearance between siding and main track does not permit display of these signals to right of track in direction of approach, signals may be displayed to left of track in direction of approach.

Display of these signals to the left of track in direction of approach must be respected as though they were displayed in accordance with these rules.

RULE 10-H, first paragraph, is revised to read: "When a yellow signal is required it will be displayed to the right of track in direction of approach, two miles from structure or track over which speed of trains must be restricted. Where two or more main tracks are affected the signal will be displayed for each track the same as if it were a single track."

RULE 10-H, third paragraph, is revised to read: "Where yellow signals are displayed within limits of a length of track over which a maximum speed is designated in train order or timetable bulletin and no maximum speed is otherwise specified for the particular section of track protected by these yellow signals, trains must not exceed restricted speed thereover. When yellow signals are displayed and the speed is not specified by train order or timetable bulletin, trains must proceed expecting to find unattended red signal that may be displayed two miles beyond the yellow signal."

RULE 10-I, first paragraph, is revised to read: "When Form Y train order is in effect an unattended red sign reading 'CONDITIONAL STOP' will be displayed 1,000 feet in advance of where main track is obstructed or impassable. Trains must approach prepared to stop short of this sign unless the engineer is orally authorized to proceed beyond the stop sign by foreman in charge of work or a proceed signal with a green flag or light is received. A yellow sign reading 'PROCEED PREPARED TO STOP' will be displayed two miles in advance of the red sign."

RULE 10-J. Speed signs prescribing an increase in speed will not be installed on branches. Speed Restrictions tables will indicate permissible speeds between mile post locations named.

RULE 11-A. At locations where fire hazards exist and the use of fusees is required, fusees must be placed between the rails.

RULE 15. Each torpedo placed will be duplicated on opposite rail during snow storms, or when snow on rails.

RULE 15, first paragraph, is revised to read: "The explosion of a torpedo is a signal to proceed with caution for two miles."

RULE 15, second paragraph, is revised to read: When a torpedo is exploded in the vicinity of a yellow signal displayed in accordance with Rule 10-H, train must proceed expecting to find an unattended red signal that may be displayed two miles beyond the torpedo and the yellow signal."

RULE 16(e). Is cancelled.

RULE 16(k). When standing apply or release air brakes.

RULE 19. Last sentence of Item (5) is cancelled.

RULE 26. On diesel fueling tracks a blue light will not be attached to reflectroized blue "Men at Work" signs.

RULE S-72. Westward trains are superior to trains of the same class in the opposite direction, except as may be noted on schedule pages of timetable.

RULE 102. Should a passenger train break in two or an emergency application of brakes occur while in motion on an ascending grade head brakeman will immediately go toward rear, close angle cock at opening if train has parted, set hand brakes, and turn up retaining valves on detached portion. After train is coupled air must be applied from engine before hand brakes and retaining valves are released.

If necessary to leave detached portion on main track, rear truck of detached portion ascending grade or lead truck of detached portion descending grade must be blocked or chained in such manner as to derail car should there be an uncontrolled movement.

RULE 103-A. Automatic crossing gates:

Crossings protected by gates have control circuits located within short distance of crossings.

Crews of trains or engines making stop, reverse movements, movements against the current of traffic or movements from siding, yard or industrial tracks over crossings protected by crossing gates must know that gates are down and crossings clear of vehicular traffic before entering crossings.

RULE 104-D. Running switches must not be made over dual control switches. At other switches will be made only when in the judgment of the conductor it is necessary and with his personal supervision.

RULE 105. When length of train and/or capacity of siding permits, trains taking siding after clearing main track will provide not less than 400 feet additional clearance to fouling points.

RULE 206, second paragraph, is MODIFIED to read: When an engine of another railroad is used, except SSW Railway (Cotton Belt), the initials of that road must precede the engine number, thus: EXTRA GN 5002 EAST.

RULE 220-A. First Paragraph of Rule 220-A is revised as follows:

"Train orders relating to track conditions and Form Y train orders, unless annulled, must be respected by conductor and engineer on all trips made during the tour of duty on which such orders are received."

FORMS OF TRAIN ORDERS. Form G, last paragraph is revised as follows:

"When an order, Form G, is fulfilled or annulled, other forms of orders held by the extra so created, except Forms K, V, Y, and train orders relating to track conditions, are also made void.

Form Y, third paragraph, is revised to read: "Yellow proceed prepared to stop signs are displayed two miles in advance of red conditional stop sign."

RULES 281 and 285. Movements against the current of traffic or to non-signaled track governed by semaphore type dwarf signals displaying "Proceed," Fig. E, Rule 281; or by light type signals displaying "Proceed not Exceeding Medium Speed," Fig. G, Rule 285, must be made with caution and position of switches observed.

AUTOMATIC BLOCK SIGNAL SYSTEM

PUSH BUTTONS

Where signal protection is provided for movements from an adjacent track to main track, push buttons and pilot lights are installed in box near each of the two signals, with time-release feature, to clear signals on one track when the control circuit on the other track is occupied.

Train on main track to let train on siding pass may clear signal on siding by pressing button bearing number of signal on siding. Train on siding to let train on main track pass should not pass Approach Circuit sign, but when necessary to do so, may clear signal on main track by pressing button bearing number of signal on main track.

Further instructions posted inside push button box.

ELECTRIC SWITCH LOCKS

Where electric switch locks are installed, lock box door must not be opened if movement is to be made into a track leading from main track until engine or car is standing within 150 feet of the switch; or if movement is to be made from such track, or through a crossover to a main track, until block indicator indicates block clear on opposite track. Within CTC limits, train dispatcher must also be notified by telephone when completed.

After lock box door is opened lock lever cannot be moved to opposite position to release switch for hand throwing until indicator in lock box indicates "unlocked."

Lock lever must not be returned to locked position until all movements over the switch are completed, switch returned to normal position and locked. Within CTC limits, train dispatcher's permission must also be obtained before lock box door is opened.

When block indicators indicate "block occupied," instructions posted inside lock box for operation of push button to start time-release must be complied with if movement is to be made to main track while approach circuit is occupied by another train, in addition to providing flag protection when necessary.

Low type electric locks, such as are applied direct to lever of hub type switch stands, function as above except that the removal of the switch lock has the same effect as opening the lock box door. Instead of being equipped with an "unlocked" indicator, these locks have a pilot light that indicates by illumination when the lock is unlocked.

When pilot light will not illuminate to indicate electric lock is unlocked, push button on adjacent cast iron box, protected with a cover and locked with switch lock, should be depressed to illuminate green light. After a time interval of from one to seven minutes pilot light on electric lock will be illuminated, indicating lock is unlocked.

Emergency lock release to be used only in case of electrical or mechanical failure, as indicated by failure of time-release to function after several minutes. When necessary to break seal on emergency lock release, train dispatcher must be notified immediately, and movement made only after flag protection provided on both tracks.

MECHANICAL SWITCH LOCKS

Lock box door must not be opened unless block indicators indicate block clear in both directions.

After lock box door is opened lock lever may be moved upward against stop. After a time interval of from one to seven minutes indicator will show UNLOCKED and lever may be moved to reverse position "R." Switch may then be operated in usual manner.

Lock lever must not be returned to normal position "N" until all movements over the switch are completed and switch returned to normal position and locked.

Emergency lock release is to be used only in case of mechanical failure, as indicated by failure of time release to function after several minutes. When necessary to break seal on emergency release, train dispatcher or signal operator must be notified immediately and movement made only after necessary flag protection is provided.

INTERLOCKING

When for any reason proceed indication of an interlocking signal cannot be acted upon at once, signal operator must immediately be notified.

When power operated switches are dual-control type switch machines, Rules 771 and 772 will also apply.

RULE 663 (c). When moving under the provisions of this rule requires movement over a dual-control type power operated switch, switch must be placed in hand position while movement is made over the switch, then returned to motor position.

LETTER TYPE INDICATORS

RULE 705: Hot Journal Detectors. Instructions follow for operation of hot journal detector boxes when stopped by illuminated letter actuated by hot journal detector device. These instructions are also posted inside detector boxes.

Numerals displayed by indicator inside of box indicate location of car with hot bearing in train. Top row indicates hot bearing on right side of train and lower row on left side of train in direction of movement. Numbers displayed on top or bottom row indicate number of axles between hot bearing and rear of train. Indicator will display a maximum of four hot bearings on each side of train. All journals of car indicated by detector as well as each adjoining car must be inspected.

When H indicator indicates a hot journal on train and there is no count shown on hot bearing detector and red light below readout marked "Locator out of Service" is illuminated, all journals on train must be inspected.

After inspection has been completed train dispatcher must be notified of condition found. When it is safe to proceed, member of crew must push button below indicator panel to cancel numbers on the indicator. Case door must be closed and secured with switch lock.

When hot journal detector actuated, following information is to be reported at next terminal in telegraph message form, addressed jointly to: Superintendent, Division Engineer, Signal Supervisor, Portland; and Chief Dispatcher, Eugene, identifying by Symbol H.B.

1. Date and Time actuated, M.P. Location.
2. Train Identification.
3. Car Number and Location in train.
4. Box location (1, 2, 3, or 4 from trailing end of car in direction of movement, right or left side).
5. Disposition of car. (If set out, state where. If inspection shows that it was not necessary to set out even though journal was warm enough to activate the detector, advise what corrective action was taken to permit movement of car. If roller bearing equipped, so state).
6. Report all cases where train passes over the detector without an indication having been displayed, but developing a hot journal between detector and a point 20-miles beyond detector.

CENTRALIZED TRAFFIC CONTROL

RULE 763. Light engines which originate and terminate within CTC limits need not display indicators, white lights or flags as provided for in Rules 21-A, 21-B and 21-C.

RULE 765. Hand operated switches within A-PB or CTC limits (except A-PB Greton-Beburg) must not be operated without permission from train dispatcher and where main track hand operated switches are not equipped with electric or mechanical switch locks and maximum authorized speed is in excess of 20 MPH, trains and engines using such switches must occupy main track continuously or leave main track switch open while work is being performed. Such tracks must not be used by trains or engines for the meeting or passing of trains.

RULE 765-A. The provisions of Rule 765-A will not apply when Form Y train-order is in effect within CTC limits.

RULE 776. Trains authorized by train dispatcher to pass absolute signal displaying stop indication and to proceed at restricted speed under provisions of this rule, may resume normal speed after rear of train passes next block signal displaying green aspect.

GENERAL REGULATIONS

RULE 808. In case of grade crossing accident it is permissible for crew members on request of law enforcement officers to furnish their names, occupations and addresses; identification of the train; direction and approximate speed of the train confirmation that the whistle, bell and headlight or headlights were operating; and direction of the vehicle. Signed statements are not to be given. Should police officers desire any additional information they should be courteously referred to Claims Department representative.

Occurring in Oregon:	Occurring in California:
District Claim Agent	District Claim Agent
General Claims Dept.	General Claims Dept.
Room 340, Union Station	S.P. Station
Portland, Oregon	Sacramento, California
Telephone 228-8181	Telephone 444-8011
Extensions 430, 484, 486	Extensions 410, 431, 436

RULE 825. When cars are set out or left on grade not protected by derail, they must also be chained to rail, or chain placed ahead of lead wheels on down-grade end. When bad order car is set out another car with brake securely set must be placed below and against the bad order car.

RULE 825 (Cont'd)

At terminals where instructions require application of hand brakes on freight trains, outgoing crews must not release hand brakes until road engine is coupled and brake system charged.

Rail skids are hung on posts at sidings at locations listed under subdivisions. When necessary to leave car or cars on the siding, permission must first be obtained from chief train dispatcher, after which rail skid must be placed on rail and leading wheel of first car in descending direction run onto the rail skid and hand brakes set before engine is detached. Trains picking up cars from these sidings must remove rail skid and return it to proper post and lock it in place with switch lock.

RULE 827. Trains handling logs on flat cars being met or passed by trains on adjoining track must be thoroughly inspected to know that proper clearance exists and at meeting or passing point will move only when train on adjoining track is standing. They must clear the time of first class trains sufficiently in advance to make inspection and must afford protection against first class trains until inspection is made. Trains except first class must not meet or pass trains handling logs on flat cars until signal or communication is received that inspection has been made.

RULE 836. When necessary to shove cars ahead of engine between stations on descending grade, cars must be chained to the engine unless air brakes are operative on all cars and air cut in.

RULE 873. Sanders must not be operated between absolute or interlocking signals governing movement over power operated switches.

AIR BRAKE RULES

RULE 2. When temperature is 32 degrees above zero or less, air brake system on locomotive must be blown out before coupling to train, as follows:

Place automatic brake valve handle in running position, then open angle cock at rear of locomotive, move brake valve handle suddenly to release position, causing heavy flow of air throughout the brake pipe, which should blow out any condensation that may have accumulated in the brake system.

Before road test is made on any freight train after locomotive has been coupled thereto, blow out air brake pipe hoses on head end of train as follows:

After making brake pipe reduction, close angle cocks between second and third cars, uncouple air hose; close angle cocks between first car and locomotive, uncouple air hose; then recouple hoses and reopen all angle cocks. During this test engineer must drain condensation from drain cocks on air compressor intercooler and aftercooler, main reservoir, control reservoir, dirt collectors, air filters, and strainers on lead unit.

RULE 2(B). Dynamic brake on head end of freight trains must not exceed four 6-axle units, six 4-axle units, or any combination of both which totals 24-axles of dynamic braking except, dynamic brake on EF415A&B and EP415A&B classes is limited to five units.

When two or more engines are coupled running light, engineers in charge of trailing engines must not use dynamic brake.

FREIGHT TRAINS

RULE 3. Standard brake pipe pressure for freight and mixed trains is 90 pounds, except:

On westward trains Ashland to MP-422............80 pounds
On eastward trains Dunsmuir to Hilt.............80 pounds

RULE 14. When dynamic brakes are used on both road and helper engines while moving on descending grades, additional tonnage in the same ratio per unit as specified for road engine may be handled without retaining valves.

RULE 23. The following series of cars are equipped with AB brake system which has automatic change-over feature to provide proper brake function when car is loaded and when empty:

SP-345000—345669	Gondolas
SP-463500—463999	Hoppers (open top)
SP-467500—467549	Hoppers (open top)
SP-491000—491059	Hoppers (covered)
SP-492000—492039	Hoppers (covered)
SP-500604	Flat car

Before leaving a station or point where such cars have been added to the consist, engineer must actuate the automatic change-over feature by reducing brake pipe pressure to below 20 pounds whether cars are loaded or empty.

RULE 25. After making brake pipe reduction and if unable to obtain a proper air brake test while running (Rule 29) when temperature is 32° or less, train must be stopped and air brake hoses on head end blown out in following manner:

Close angle cocks between second and third cars, uncouple air hose; close angle cocks between first and second cars, uncouple air hose; close angle cocks between first car and locomotive, uncouple air hose, then recouple hoses and reopen all angle cocks. During this test engineer must drain condensation from drain cocks on air compressor intercooler and aftercooler, main reservoir, control reservoir, dirt collectors, air filters, and strainers on lead unit.

RULE 33. When tonnage of freight train handling cars with single capacity brakes exceeds 80 tons per operative brake, maximum speed of train must not exceed 45 MPH.

Weight of units not using their dynamic brake in road engines must be added to weight of cars and summation thereof divided by the number of cars having operative brakes to determine the tons per operative brake in train.

To determine tonnage per operative brake, loaded cars equipped with double capacity brakes, when loaded, may be considered as two cars.

RULE 60. Changes in dynamic braking force must be made gradually when practicable. On decending grades, dynamic brake on freight trains must be reduced to one-half of maximum 500 feet before entering and 1500 feet after passing through turnout or crossover and during adjustment of slack following release of train air brakes.

MISCELLANEOUS

1. HELPER SERVICE:

(a) When helper engine is placed behind caboose, not more than 2 operating units or 4000 operative horsepower will be used.
(b) When helper engine is placed immediately ahead of caboose, not more than 4 operating units or 8000 horsepower will be used.

Air will be cut in on all helper engines, and engine must not be cut off when train is in motion.

2. Scale test cars must not be handled with other cars during switching movements, and must be entrained behind helper engines when moving in train.

3. Rotary snow plows will not clear certain structures, tunnels and cuts with wings extended; be governed by instructions posted in rotary cab.

Flangers operating in snow territory must raise flanger blades and stop while train or engine is passing on adjacent track.

Rotary snow plow SPMW 211 restricted east of the west portal of Tunnel 9, Cascade Line.

All rotary snow plows restricted from operating on Judkins and Natron sidings.

When meeting or passing trains, rotary snow plow must be stopped on straight track with wings in closed position and remain stopped until passing train has cleared.

At Judkins, Natron, Dougren, Dexter, Minnow, Crale, Hampton and Lookout, stop rotary snow plow and similar equipment before passing dwarf signals located between siding and main track. These signals will clear hinges on snow plow wings only about one inch. After stop, movement by signals to be with caution not exceeding 5 MPH.

Rotary snow plow SPMW 206 on main track or siding will not clear eastward "A" signal, 2-unit dwarf at Lawrence Street, Eugene. Signal maintainer must be called before movement is made past this dwarf signal.

Rotary snow plows equipped with wings and when wings are extended, the following impaired clearances exist between MP 565.48 (Eagle Creek) and Crescent Lake:

(a) At all snow sheds and tunnels.
(b) Bridges Nos. 565.48 (Eagle Creek), 563.23 (Salt Creek), 552.30, 549.07, 548.95, 548.50 (Noisy Creek), 547.67 (Shady Creek), 546.38 (Cascade Creek), 536.93 (Trapper Creek),

(c) All water columns at Wicopee and Crescent Lake.

(d) Westward "A" signal between East switch Cruzatte and Tunnel No. 6. Signals 5282 and 5288.

4. Should a passenger train be stopped in a tunnel, air conditioned cars within the tunnel must immediately have the air conditioning systems, including ice engines and engine generators, shut off, fresh air intake shutters closed, and blower fans shut off.

Should a train be stopped with the engine in a tunnel and it is found that, in the case of a passenger train it cannot be moved within five minutes after stopping, and in case of a freight train it cannot be moved within a reasonable length of time, trainmen and enginemen must take necessary precautions to prevent movement. Independent brake and sufficient hand brakes must be immediately applied. Engine wheels must be secured by blocks and chains, and power plants and steam generators, if any, on engine shut down.

5. Forward brakemen in freight service will ride the lead diesel unit unless otherwise instructed by conductor or engineer.

6. Chip cars in series SP-352000 to SP-352017, inclusive, are assigned to chip service between Coquille and Gardiner Jct. and to be handled only between these locations unless otherwise advised by Chief Dispatcher.

7. MAXIMUM SPEED PERMITTED WITH CERTAIN EQUIPMENT.

MAXIMUM SPEED PERMITTED WITH CERTAIN EQUIPMENT	MPH MAIN TRACKS OTHER THAN BRANCHES	MPH MAIN TRACKS ON BRANCHES
Double or triple loads	..	25
Logs loaded on flat or logging cars, except:	35	35
on curves	25#	25
through truss bridges, tunnels and passing stations	15##	15
Trains handling flanger, except	30	30
Engine, flanger and caboose only may operate at Column 1 speeds not exceeding 45 MPH on tangent track and 35 MPH on curves.		
Scale test cars, except:	40	30**
SPMW 2024	65	49
Cars with arch bar trucks	40	30
Steel pile-drivers, except:	40*	30*
SPMW 4088 and SPMW 5479 (locomotive crane pile-driver)	45	35
Relief outfits with steam derricks, except:	45	25*
On Siskiyou Line, except:	35	..
Nos. 7007, 7009, 7012, 7019 and 7034	35*	25*
(Relief outfits 7014 and 7025 must not be operated on any branch.)		
(Relief derricks 7003 and 7004 must not operate between Myrtle Point and Powers, Hendricks and Hyland, Springfield and Tallman, Lebanon and West Stayton and Mill City Branch.)		
Relief derrick 7009 restricted between Myrtle Point and Powers may operate over following bridges with light car on each side:		
McKenzie Riv. Br. 649.50 Marcola Br.		
Mohawk Riv. Br. 651.00 Marcola Br.		
McKenzie Riv. Br. 650.23 Wood.-Spgfld. Br.		
Calapooia Riv. Br. 671.55 Wood.-Spgfld. Br.		
Thomas Creek Br. 700.98 Wood.-Spgfld. Br.		
N. Sant. Riv. Br. 706.29 Wood.-Spgfld. Br.		
N. Sant. Riv. Br. 726.51 Mill City Br.	..	10
Locomotive cranes:		
With boom disconnected, heavy end forward	45*	25*
except SPMW 743, 2575 and 4020	35*	25*
With boom disconnected, light end forward	20*	15
With boom in place, either end forward	25*	15
Rotary snow plows:		
Electrified	35	15***
Steam	25	15
All Jordan Spreaders, when running backwards	25	20
When moving forward (prepared for travel)	50	35
Passenger equipment with caboose and Engine and caboose only may operate at Column 1 speeds not exceeding 65 MPH.		

*These speeds must not be exceeded, and on curves where authorized speed is more than 15 MPH speed must be reduced to 5 MPH less than shown in timetable and on speed signs.

**When more than one scale test car is handled in a train on any branch, they must be separated by at least one steel-underframe car.

***Because of their weight, electrified snow plows are restricted from operating on branch lines as follows: Woodburn-Springfield Branch, between Springfield and Tallman, and between Lebanon and West Stayton; Mill City Branch; Marcola Branch, between MP 649.40 and Hyland; and Coos Bay Branch, between Myrtle Point and Powers.

#Main track between Eugene Yard and Albany 35 MPH.

##Main track between Eugene Yard and Albany 20 MPH.

Unless otherwise authorized, trains handling passenger cars with flat spots on wheels in excess of 3¼ inches in length must not exceed 10 MPH. When flat spots are not in excess of 3¼ inches long such cars may be operated at maximum authorized speeds.

When moving against current of traffic, or when movement is not protected by block signals, speed of passenger trains and light engines must not exceed 59 MPH, and speed of freight trains must not exceed 49 MPH, nor may speed exceed that applying to normal operation. Unless proceed signal received, or it is known that warning devices are operating, such trains and engines must stop approaching road crossings where automatic warning devices are installed, and may proceed after member of crew protects crossing.

All cars handled in passenger trains must be equipped with steel-tired or all-steel wheels. Cars not so equipped must move in freight trains, passengers if any, to move on passenger trains.

Passenger carrying cars, baggage, express and other head-end cars, unless equipped with steel center sills and steel platforms must not be handled in passenger trains except on authority of Superintendent.

Freight cars must not be handled behind occupied passenger carrying cars, except in mixed trains in military or naval movements.

Baggage, express, mail, refrigerator or other head-end cars must not be handled on rear of passenger trains unless trainmen can pass through them.

8. SPEED RESTRICTIONS FOR ENGINES: Maximum speed shown in table on the following page is subject to further restrictions applicable to certain territories as shown in Speed Restrictions for Trains.

Nominal classifications are descriptive of the engines as follows:

1st letter	Builder: A—Alco; B—BLH; E—EMD; F—Fairbanks-Morse; G—G.E.; K—Krauss-Maffi.
2nd letter	Type of service: F—Freight, P—Passenger, S—Switcher.
1st number	Number of axles.
2nd and 3rd numbers	Horsepower (100).
Last letter	Style of unit: A—Car body type with control cab. B—No control cab. No letter indicates road switcher type.

Diesel engines weighing 100,000 pounds or more moving dead in train will be placed either first behind engine handling train; diesel engines weighing less than 100,000 pounds must be placed near rear of train.

Dead or disabled engines, listed in timetable which requires movement at reduced speed must not be handled in train until train-order designating maximum speed is issued.

Engines handled dead must not exceed speed shown in table, except GS-404 restricted to 30 MPH.

Light engines are authorized to operate at Column 1 speeds except on descending grade without dynamic brake in operation must not exceed Column 2 speeds.

MAXIMUM SPEED FOR ENGINES

CLASSIFICATION	ENGINE NUMBER SERIES	MAXIMUM SPEED EXCEPT [#]
GS404	3, 4, 1652	35
EF415C	304	70
EF418A	600-637	70
EF418B	700-725	70
EF415AC	925-975 odd numbers only	70
EF415BC	928-956 even numbers only	70
EF415A	352, 359-379, 6172-6189, 6191-6193, 6206-6382, 6384-6385, 6387, 6392, 6394-6440, 6443, 6463-6470	70
EP415A	354-357, 6190, 6203, 6383, 6386, 6388-6391, 6393,6441-6442, 6444-6461	79
EF415B	535-539, 547-553, 8043-8090, 8099-8101, 8104, 8110, 8112, 8115-8117, 8119-8121, 8123-8124, 8140-8284, 8292, 8295, 8299-8300, 8305	70
EP415B	540-545, 8091-8095, 8103, 8106-8109, 8111, 8114, 8118, 8122, 8126-8139, 8290-8291, 8293-8294, 8296-8298, 8301-8303	70
EP415AC	6462	70
ES406	1000-1016	45
AS407	1024-1032	60
ES408	1100-1128	65
ES408B	1150-1153	65
ES409	1170-1179	65
AS409	1200-1281	60
AS410	1703-1845	60
BS410C	1850-1854	60
BS410	1856-1869	60
ES410C	1900-1903	65
ES410	1904-1913	60
ES410	1914-1953	65
BS412	2100-2157	60
ES412C	2200-2207, 2250-2261, 2289-2293	65
ES412	2208-2223, 2262-2288	65
FS412	2350-2394	60
AS415	2400-2409	65
ES615	2700-2714, 2716-2722	55
ES615	2715, 2723-2742	70
AS416C	2800-2805	75
AS416C	2806-2816	65
AS616	2850-2887	65
AS616C	2888-2890	65
AS418	2900-2936	70
AS618	2950-2970	70
EP418	3000-3009	79
FP624	3020-3035	70
EF418	3400-3640, 3653-3727	70
EF418C	3641-3652	70
EF618	3800-3966	70
AF420	4000-4009	70
EF420C	4030, 4040-4049	70
EF420C	4031-4039	75
EF420	4050-4087	70
BS615B	4900	35
BS616B	4901-4905	35
EF423C	5000-5009	70
EF423	5010-5017	70
GS407	5100-5120	55
AF624C	5150-5159	75
AF624	5160-5162	70
BS615	5208-5222, 5224-5226, 5243, 5245	35
BS616	177-184, 5223, 5228-5242, 5244, 5246-5278	35
EP620B	5900-5917	79
EP620A	6000-6017	79
EP623A	6018	79
AP620A	6026-6045	79
EP624A	6046-6054	79
EF425C	6500-6519, 6680-6681	70
EF425	6520-6679	70
GF425	6700-6767	70
EF625	6900-6928	70
GF428	7025-7028	70
AF628	7100-7128	70
GF628	7150-7159	70
EF430C	7600-7607	70
AF630	7800-7814	70
EF630	8400-8478	70
EF636	8800-8844	70
KF636A	9100-9105	70
KF636	9106-9120	70
AF640	9150-9152	70
EF850B	9500-9502	70
GF850	9550-9552	70
RDC	10	79
	Any engine not listed, except	35
	SP&S Ry DE Units No. 60-84, 90-98, 150-155, 200-213, 850-869, 300-306, 310-317, 320-327	65
	WPRR D239, 701-713, 725-732, 801A, 801D, 802A, 913-924	65
	GN Ry GP7, GP9, RS5, A-F-A, A-F-B, SD9, SW7, RS4	65

[#] When operated in multiple unit control, on head end of train or running light and engineer is in other than the leading control cab in direction of movement, speed must not exceed 30 MPH. 'A' type units (indicated by letter 'A' following classification numerals) operating in reverse as lead unit in direction of movement must not exceed 30 MPH.

SPECIAL INSTRUCTIONS—BROOKLYN SUBDIVISION

RULE 14(b). Salem: After stopping at railroad crossings, sound Signal 14(b) only when visibility is obscured.

RULE 14(k). Will not apply between Portland and Eugene.

RULE 14(m). Salem and Hillsboro: Approaching railroad crossings sound Signal 14(m) only when visibility is obscured.

Brooklyn: Eastward freight trains will not sound Signal 14(m).

RULES 21A, 21B and 21C. Extra trains operating between Eugene Yard and Portland except on Branch lines are not required to display train indicators or white lights, except trains handling loads of excess dimensions covered by train order will display train indicators which need not be removed at destination.

RULE 26. Portland: At Union Station blue sign may be displayed on fireman's side when conditions do not permit sign to be displayed on engineer's side of cab of engine.

Eugene Yard: Signals with blue and amber aspects located adjacent to and to be used in connection with permanently installed BLUE SIGNS at the entrances to various departure tracks. Signals are operated by Mechancial Department employes, and following will govern movement on these tracks:

Amber:	Aspect will permit movement past blue sign into track and permit coupling or moving of cars on that track.
Blue:	Aspect will NOT permit movement into or on track and all provisions of Rule 26 apply.
Not Lighted:	Signal must be considered as displaying most restrictive indication and Yardmaster must be contacted

RULE 81. Willsburg Jct.—Brooklyn: Two Main Tracks between MP 764.9, Willsburg Junction and MP 766.7, Brooklyn. Track No. 1 is located west of and adjacent to track No. 2.

Lebanon: When operator is on duty at Lebanon, OERy trains must obtain permission from operator before entering SP main track.

RULE 82-A. Regular trains authorized on Cascade Subdivision and terminating at Eugene, may assume the corresponding schedule on the Brooklyn Subdivision without obtaining clearance at Eugene.

Regular trains authorized on the Brooklyn Subdivision, terminating at Eugene may assume the corresponding schedule on the Cascade Subdivision without obtaining clearance at Eugene.

Train-orders may be issued on Brooklyn or Cascade Subdivision to apply on either subdivision.

When crews of regular or extra trains are relieved at Eugene all train-orders and instructions must be delivered to relieving crews; except when outgoing engineer is not available at time incoming engineer is released, train-orders and instructions will be given to conductor for delivery to outgoing engineer.

Extra trains to Monroe-Dawson need not obtain clearance at Corvallis.

Train to operate as No. 706 or section thereof from Albany is authorized to display such identity between Eugene Yard and Albany and will receive clearance at Eugene Yard accordingly.

Train operated as No. 705 or section thereof to Albany is authorized to display such identity through to Eugene Yard.

RULE 83. Extra trains operating between Corvallis and Monroe-Dawson, Canby and Molalla, Wilsonia and Jefferson Street, Whiteson and Willamina-Perrydale, Tallman and MP-658.3 and Springfield and MP-652.9, in addition to information required by train register, must register destination of trip, turning point and date of departure in column captioned "Signals." When trip has been completed, date of arrival at initial station of trip must also be entered in column captioned "Signals." Extra trains enroute into these territories must not leave the initial station until it has been ascertained from the train register that all preceding extra trains via the route to be used have completed their trips and registered time and date of arrival at initial station of trip accordingly.

RULE 83-A. At the following stations only the trains indicated will register:

Eugene Yard	Trains originating or terminating.
Brooklyn	Trains originating or terminating.
Corvallis Junction and Cook	Only trains instructed by train order.
Wilsonia	(Tillamook Branch) Only trains instructed by train order.

RULE 83-B. At open train-order offices trains may register by ticket as follows:

Hillsboro	All Trains.
Corvallis	All Trains.
Albany	Trains to or from Toledo Branch and OE Ry. Trains.

RULE 85. Third paragraph will not apply between Portland and Eugene.

RULE 87(c). Will not apply between block system limit, MP 769.2 and Portland.

RULE 93. Yard limits in which the provisions of Rule 93 will apply, except within CTC limits, are established at the following stations:

West MP		East MP
643.00	Eugene (Siskiyou Subdiv.)	652.00
	" (Brooklyn Subdiv.)	652.00
	" (Coos Bay Branch)	652.29
689.67	Albany	692.30
	" (Toledo Branch)	692.43
	" (Tallman Branch)	690.40
715.91	Salem	718.90
718.93	" (Woodburn-Springfield Branch	719.58
	" (Dallas Branch)	721.38
736.38	Woodburn (Woodburn-Springfield Branch)	
	Canby (Molalla Branch)	748.20
741.24	Brooklyn (Tillamook Branch)	
683.43	Tallman (Woodburn-Springfield Branch)	685.72
696.91	" (Tallman Branch)	
685.74	Lebanon	690.17
685.87	Corvallis (West Side Branch)	690.96
701.02	" (Toledo Branch)	706.20
763.50	Toledo	End of Branch
699.00	Wellsdale	700.63
708.49	Independence	711.17
713.25	Gerlinger (West Side Branch)	715.64
727.84	" (Dallas Branch)	End of Branch
730.23	McMinnville (West Side Branch)	738.92
	" (Newberg Branch)	738.40
	" (Willamina Branch)	731.39
764.11	Hillsboro (West Side Branch)	
766.69	" (Tillamook Branch)	764.18
756.48	Beaverton	754.97
748.07	Newberg	751.13
762.41	Cook (Newberg Branch)	
750.00	" (Tillamook Branch)	747.28
745.67	Lake Oswego (Tillamook Branch)	741.58
	" (Jefferson Street Branch)	768.80
826.03	Batterson	824.37
	Tillamook	854.00

RULE 97: Between the following locations extra trains moving in either direction are authorized to run extra without train-order authority:

End of CTC, MP 647.6 and End of CTC, MP 652.0
End of CTC, MP 688.7 and End of CTC, MP 692.3
End of CTC, MP 715.5 and End of CTC, MP 718.9
End of CTC MP 765.0 and Haig
Corvallis and Monroe-Dawson
Canby and Molalla
Wilsonia and Jefferson Street
Whiteson and Willamina-Perrydale
Tallman and MP 658.3
Springfield and MP 652.9

RULE D-97-A. Will apply between Haig and Portland.

RULE 98. Railroad crossings at grade not interlocked:

Albany	OERy crossings over yard tracks,
Salem	OERy crossings over yard tracks,
Between Salem and Pinckney	OERy crossing,
Gerlinger	West Side Branch and Falls City Branch crossing,
Hillsboro	OERy crossing at Washington St.
East Portland	SP&SRy crossing at Madison St.

RULE 99 will not apply between the following points:

Corvallis and Monroe-Dawson
Canby and Molalla
Wilsonia and Jefferson Street
Whiteson and Willamina-Perrydale
Tallman and MP 658.3
Springfield and MP 652.9

RULE 99A. Between the following locations, except on trains carrying passengers, flag protection is not required:

End of CTC, MP 647.6 and End of CTC, MP 652.0
Eugene-Portland line, MP 689.67, and End CTC, MP 692.3.
Eugene-Portland line, MP 715.91 and End CTC, MP 718.9.
End of CTC, MP 765.0 and Haig.

RULE 99-C. Will apply as follows:

On all branches.

RULE 103-A. Automatic crossing gates: At the following locations trains moving under the provisions of Rules 771 or 776 must not enter crossing until protection for vehicular traffic has been afforded by a member of the crew, or it is known that automatic warning devices are operating.

Station	Location	MP
Irving	Prairie Road	653.5
Junction City	6th St.	660.6
Alford	County Road	667.5
Shedd	Shedd Road	679.1
Renard	Boone Road	713.9
*Fairgrounds	Silverton Road	720.3
East Milwaukie	Oak St.	764.1
East Milwaukie	Harrison St.	764.3

*Trains or engines stopped by eastward absolute signals at MP 720.3 must remain at least 100 feet west of signals to permit crossing gates to raise.

Springfield (Woodburn-Springfield Br.): All trains and switching movements must stop 50 ft. in advance of Centennial Blvd. crossing (CC 645.8) before proceeding over crossing, making sure crossing protection is operating.

Haig: City traffic signals governing vehicular traffic crossing tracks 17th and Powell Streets are synchronized so that whenever crossing signal is actuated, traffic signals will display "stop."

In event westward trains or engines on either main track are delayed within the 480 foot traffic circuit east of Powell Street, stop should be made just east of sign indicating "CONTROL POINT" located 55 feet east of Powell Street. Traffic signals will resume normal operation after 60 seconds and continue in normal operation until "CONTROL POINT" is passed, at which time traffic signals will display "stop" for highway traffic until rear of train or engine clears crossing.

After a movement has been stopped and started within the approach circuit caution must be exercised to know that vehicular traffic is being properly controlled by traffic signals before trains or engines enter crossing.

Eastward movements against current of traffic approaching S. E. Powell St. crossing, must stop within 75 feet of crossing, wait 30 seconds for ringing circuit to operate, and in addition flagman must go to crossing to protect traffic until movement is commenced over crossing.

Salem: (Geer Branch): All train and switching movements must stop 50 ft. in advance of Lancaster Dr. crossing (CG723.6) and State Street crossing (CG724.7) before proceeding over crossings, making sure crossing protection is operating.

Cook: Gates to protect highway traffic crossing leads to TOFC ramps at Cook, MP 749.5, are operated manually by inserting switch key in receptacle located on posts each side of crossing, and turn key. Key may be removed but crossing must be occupied within 45 seconds or gates will raise. Crossing must not be entered without crossing gate protection.

Tigard: All switching movements must stop at stop signs in advance of Hunziker Road crossing on Overmyer Warehouse spur before proceeding over crossing ascertaining crossing protection is operating.

Trains and engines must stop and be preceded by flagman before crossing following highways:

Seghers: Within 50 feet of Westside Highway Stimson Mill spur.

Toledo: Crossing over leads to G.P. Paper Mill.

RULE 104. Normal position of rigid switches at junction points and end of double track is as follows:

Eugene Yard	Coos Bay line, for yard track,
Albany	OERy connection, for SP main track,
Albany	Toledo Branch, for main line.
Salem	Dallas Branch, for main track line.
Canby	Molalla Branch, for siding,
Haig	End double track, for eastward track,
Springfield	Woodburn-Springfield Branch, for Cascade line,
Tallman	West wye switch Woodburn-Springfield Branch (Brownsville end of wye), lined for movement between Lebanon and Brownsville, Junction switch and west wye switch on Tallman Branch for movement between Albany and Lebanon,
Geer	Salem end—Salem to West Stayton, West Stayton end—West Stayton to Silverton, Silverton end—Silverton to West Stayton,
Woodburn	Woodburn-Springfield Branch, for siding,
Corvallis Jct.	West Side Branch, for Toledo Branch,
Corvallis Jct.	East wye switch on West Side Branch, for wye,
Corvallis	West Side Branch, for Toledo Branch,
Toledo	Georgia-Pacific Corp., tracks, for SP main track,
Alpine Jct.	Bailey Branch, for West Side Branch,
V&S Jct.	V&SRR track, for SP main track,
St. Joseph	West Side Branch for West Side Branch
Newberg	Spaulding Lbr. Co. track, for SP track,
Hillsboro	West Side Branch, for Tillamook Branch,
Cook	Newberg Branch, for Tillamook Branch,
Whiteson	Willamina Branch, for West Side Branch,
Willamina	LP&NRy connection, for siding,
Broadmead	Perrydale Branch, for Willamina Branch,
Beburg	OERy connection, for SP main track (P-A),
Greton	OERy connection, for SP main track (P-A),
Wilsonia	Jefferson St. Branch, for Tillamook Branch.
Derails in main track	
Canby	On Molalla Branch, 100 feet east of east wye switch,
Willamina	1550 feet east of station building,
Dawson	210 feet east of west switch

Young: Main track switch located at MP 709.5 is lined for movement Young to Stayton.

RULE 221: Brooklyn—is train-order office only for trains originating.

Eugene Yard—Is a train order office only for trains originating.

Light will not be displayed in train order signal at the following stations, except when train order operator is on duty:

Independence McMinnville Newberg

RULE D-251: Will apply between Haig and block system limit, MP 769.2.

RULE 306. The following block signals, equipped with triangular plate bearing the letter "P" have included in their control limits some special protective device:

Eastward Signal	Protection	Westward Signal
P-6504	Spring switch, MP 650.36, Eugene Yard	
P-A	Spring switch, west end Irving siding	
	Spring Switch, on Irving Siding	P-6523
P-7168	Spring switch west end siding, Pringle	
P-A P-A	Collision detector, highway underpass MP-755.85 and 755.99 Oregon City	P-7561
	Spring switch east end siding, East Milwaukie	P-A

Albany: Light type indicators located at MP 691.65 and MP 691.85 in vicinity of First St. and Water St. underpasses. When indicators display red or lunar aspect the following will govern:

Red..........Stop and make inspection of structure.
Lunar..........Proceed.

AUTOMATIC BLOCK SIGNAL SYSTEM

Between the following locations trains moving in either direction will move by block signals whose indications will supersede the superiority of trains:

End of CTC, MP 647.6 and End of CTC, MP 652.0
End of CTC, MP 688.7 and End of CTC, MP 692.3
End of CTC, MP 715.5, and End of CTC, MP 718.9
End of CTC, MP 765.0 and Haig

Brooklyn: Westward signal 7665 governing movements on Track No. 1 and westward signal 7667 governing movements on Track No. 2. When these signals display stop indication, permission must be obtained from signal operator at Brooklyn before applying Rule 509(a) or 509(b) or 510(b).

Yard engines en route to "Reed siding" or Willsburg Jct. or industries on track No. 2 must have permission of operator at Brooklyn before passing signal 7665 or 7667.

When Signal 7672 displays stop indication, train after stopping, may proceed immediately at restricted speed not exceeding 10 MPH.

East Portland: Movements over SP&SRy crossing at Madison St. are governed by dwarf light signals located near crossing. If signals display stop indication, trains and engines must stop, and if crossing is clear of intersecting movement, may then proceed as prescribed by Rule 509 or 510. but flag protection must be provided on intersecting track unless derails are known to be in derailing position. Movement against current of traffic over crossing governed by signal for movement with current of traffic.

SPRING SWITCHES

Spring switches equipped with facing point locks are located as follows:

Location		Normal Position
Eugene Yard......	MP 650.36 from yard........	Main track
Irving............	West end siding..........	Main track
Pringle..........	West end yard............	Main track
East Milwaukie....	East end siding...........	Main track

INTERLOCKING

Willsburg Jct.: Limits extend on track No. 1 from end of CTC, MP 765.0, to westward interlocking signal, MP 765.2 and to eastward interlocking signal on Tillamook Branch, MP 765.1 and is under the control of signal operator at Brooklyn.

Before authorizing eastward train to pass eastward absolute signal, MP 764.9, displaying stop indication for movement to track No. 1, train dispatcher must obtain authority from signal operator. Authority from train dispatcher will also authorize movement through interlocking.

Before authorizing movements under Rule 663 (b), signal operators must ascertain that indication lights on control panel are illuminated indicating dual-control switch is in proper position and locked. When indication lights are not illuminated, dual-control switch must first be placed in hand position in accordance with Rule 772, until movement over switch has been completed, then returned to motor position.

East Portland Tower: Governs movement over Willamette River bridge.

Limits extend from east end of Willamette River bridge to 1500 feet west of west end of bridge.

Movement governed by UPRR rules, the requirements of which are similar to SP interlocking rules except UPRR Rule 663 requires hand signal from signalman to be given from the center of track on which the movement is to be made.

The following whistle signals will be used:
To Portland, —,
To Albina, — o,
To SP main track, o —,
To Transfer track, — o —,
To Graham (Sullivan Gulch line), — —,
To East Second Street, o o —,
To SP yard, o — o,
To track 10, o o — —.

Portland Terminal Railroad Tower: Limits extend from east end of Willamette River bridge to Terminal tracks, Union Station. Trainmen and enginemen are subject to the rules and regulations of PTR Co.

When the home signal indicates "stop" the following whistle signals will be used:
To Albina, — o,
To Troutdale, — —,
To SP Main track, o —,
To SP yard, o — o,
To East Second Street, o o —,
To SP&SRy to East Side, o o —.

When the home signal indicates "proceed" the whistle must not be sounded.

When conditions are favorable use hand or lamp signals for route desired, omitting whistle signals.

Trains and engines using tracks Nos. 1 to 10 inclusive, must move at restricted speed when passing a train receiving or discharging passengers, and must not cross under "High Shed" at passenger station without receiving proceed signal from stationmaster or his assistant.

Yard engines moving under "High Shed" will have member of crew ride leading end of engine. When cars are being shoved under "High Shed" member of crew must ride leading end of lead car in direction of movement.

A flagman must precede the movement of yard engines over crossing in front of the baggage room unless a proceed signal is given by the stationmaster, baggagemaster or their assistants.

Trains and engines must not exceed 10 MPH between N.W. 17th Ave. and passenger station, and 6 MPH between north end of passenger station tracks and N.W. Front Ave.

RULE 705. LETTER TYPE-INDICATORS

Indicators located as follows:

Illum. Letter	On Signal	Approaching	Authorizes and requires Movement as follows
S...........	6900...	West switch to Yard, Albany	Be governed by instructions of yardmaster or his representative.
S...........	6923...	East switch to Yard, Albany	Be governed by instructions of yardmaster or his representative.
S...........	7168...	Pringle	Be governed by instructions of yardmaster or his representative.
S...........	7189.	Pringle	Be governed by instructions of yardmaster or his representative.
W......	MP-765.6..	Tacoma Ave.... crossing, Brooklyn	Westward trains on Tracks No. 1 or No. 2, when indicator illuminated must stop short of Tacoma Ave. and wait until indicator extinguished. Signals 7665 and 7667 as the case may be will display yellow aspect when indicator is illuminated. Indicator for Track No. 2 located to left of track.
S.........	Eastward.. "A"	East Milwaukie.	Pass absolute signal displaying Stop indication and enter siding East Milwaukie.

ABSOLUTE-PERMISSIVE BLOCK

Absolute-Permissive Block between Greton and Beburg.

Eastward SP trains will, when meets are made at Beburg, move through siding unless otherwise provided by train order. Eastward trains entering siding at Beburg must clear main track as soon as possible to release signals for other movements.

Beburg. Junction switch with O.E. Ry., is dual-control switch.

Westward absolute signal governs movements over switch.

Junction switch will automatically line for westward movements via S.P. or O.E. depending on movements made into A-PB at Greton.

O.E. Ry. trains entering A-PB at Beburg will operate push button adjacent to their main track before entering Beaverton. White light will be displayed in box to indicate that line up has been requested. When green light is illuminated will indicate line up has been made and signal is clear for movement into A-PB.

When eastward absolute signals at Beburg display stop indication, switch must be taken in hand-throw while movement is made over switch.

When westward absolute signal at Beburg displays stop indication, train, after stopping and taking switch in hand-throw while movement is made over switch, may proceed at restricted speed to A-PB limit and RULE 744 will not apply.

Signal 7530 equipped to display aspect per RULE 284.

CENTRALIZED TRAFFIC CONTROL

Limits extend from MP 652.0, Eugene yard to MP 688.7, Hallawell: MP 692.3, Albany to MP 715.5, Renard; MP 718.9, Salem to MP 765.0, Willsburg Jct.

Irving: Proceed indication received from eastward signal 6524 from yard will authorize movement to siding without permission of Train Dispatcher. Signal 6524 governs movement to siding only and will remain dark for movements lined to tail track.

Albany, Page, Pringle: Trains, before entering main track at Albany, Pringle or Page, must first ascertain that Train Dispatcher will be able to move train into CTC limits.

Labish: When absolute signals on siding or yard track at west switch display "lunar" aspect per Rule 289, Rule 775 and second paragraph of Rule 771 will not apply.

Coalca: When absolute signals on siding or extension at east switch display "lunar" aspect per Rule 289, Rule 775 and second paragraph of Rule 771 will not apply.

GENERAL REGULATIONS

RULE 826.

Oregon City and Pulp: Indicator lights located on tower of Publishers Paper Co. retractable chip unloader at Oregon City and on post near Crown Zellerbach retractable chip unloader at Pulp govern movements as follows:

Green:	Track may be used for switching movements.
Red:	Track may be entered, but cars must not be coupled to, or moved until unloader operator contacted.
Not Lighted:	Must be considered as displaying most restrictive indication.

Jefferson Street: Indicator lights located on side of Multnomah Plywood Bldg. govern movements as follows:

Green:	Track may be used for switching movements.
Red:	Track must not be entered.
Not Lighted:	Must be considered as displaying most restrictive indication.

Eugene Yard: Indicator lights located on Tracks Nos. 30 and 32, govern movement on these tracks as follows:

Green:	Tracks may be used for trains or switching movement.
Yellow:	Tracks may be entered, switched and engines, cars or cabooses added or detached.
Red:	Tracks may be entered, but cars on these tracks must not be coupled to or moved. Trains made up on these tracks must not depart until it has been ascertained indicator displays green aspect.
Not Lighted:	Signals must be considered as displaying most restrictive indication and Icing Platform Foreman must be contacted for instructions before cars are coupled to or moved.

When indicator light at east end Track 30 displays "Red" aspect, engines moving eastward on this track must not pass fouling point until indicator light displays "Green" aspect.

Toledo: On spurs leading to Georgia-Pacific Paper Co., gates have been installed with SP Lock on outside. Crews entering must unlock and open gate and close and lock gate immediately after completing movement, except if another switch is to be made within 30 minutes. Before entering plant use push button located at gate to activate warning device for G-P crews.

RULE 827. Freight trains using retainers on descending grade will stop at Enright 10 minutes for heat radiation, at which time train inspection will be made.

RULE 842: Eugene Yard: Westward trains will enter yard at MP 650.94 unless otherwise instructed and yardmen must not line switch into yard until train has been identified. Trains entering yard must not exceed 15 MPH over 1600-foot section of track in approach to switch to permit identification and operation of switch.

All identified trains arriving Eugene Yard, except SLE, do not exceed 7 MPH into receiving track to permit carmen to make inbound inspection.

Salem: Westward trains or engines must not pass OERy Crossing MP 719.68, Dallas Branch until permission is received from yardmaster.

Brooklyn: Eastward trains terminating Brooklyn must not pass signal bridge MP-766.7 unless authorized by yardmaster or by a proceed signal from yardman. When so authorized, trains entering yard from main track No. 2 may pass signal 7666 displaying stop indication without stopping, at restricted speed, which is an indication that protection for the movement has been provided and yardman is responsible that such protection has been provided.

Unit for display of flashing white light, located 100 feet east of Powell Blvd., governs movement of westward transfers entering east end of yard. When flashing white light is not displayed, such transfers must stop and not proceed until foreman contacts yardmaster for instructions.

RULE 872. Enginemen taking charge of engines at Brooklyn and Eugene Terminal will consider engines as having been amply supplied and sanders operative.

AIR BRAKE RULES

FREIGHT TRAINS

RULE 17. Retaining valves will be used on freight and mixed trains on descending grades as follows:

Summit to Nashville. With no dynamic brake in operation one retaining valve for each 80 tons in train. When dynamic brake is in operation and tonnage of train exceeds 1650 tons per six axle unit or 900 tons per four axle unit of dynamic brake, one retaining valve for each 125 tons in train. When dynamic brake is in operation and pressure maintaining system of braking is being used and tonnage exceeds 2000 tons per six axle unit or 1375 tons per four axle unit of dynamic brake, one retaining valve for each 125 tons in train.

Timber-Enright, both directions: With no dynamic brake in operation, one retaining valve for each 57½ tons in train. When dynamic brake is in operation and tonnage of train exceeds 1000 tons per unit of dynamic brake, one retaining valve for each 80 tons in train.

For operating convenience, retaining valves may be turned up and retaining valve test made at Timber.

Tunnel 25 to Buxton. With no dynamic brake in operation one retaining valve for each 60 tons in train. When dynamic brake is in operation and tonnage of train exceeds 1200 tons per unit of dynamic brake, one retaining valve for each 100 tons in train.

RULE 22. Trainmen must not couple air hoses on outgoing freight trains at Albany or Salem until they have been notified by Yardmaster or his representative that switching has been completed which includes having engine and caboose on train. After trainmen have been so notified, yardmen must not perform switching on, nor couple other cars or engines to the train without instructions from the Yardmaster or his representative, who must notify trainmen before intended move is made.

RULE 24-B. Eugene Yard: When outgoing crew takes charge of train on arrival and continuity of brake pipe is not disturbed, incoming engineer will apply brakes when stopped. Outgoing engineer will release brakes and proceed without making rear end or road test.

RULE 25. Will apply at Cochran when temperature is 32 degrees or less.

RULE 33. Gross tonnage on any freight train must not exceed the tons per operative brake between the stations shown:

Summit and Nashville	80 tons
Timber and MP 807.0	65 tons
Buxton and MP 788.5	75 tons

PASSENGER TRAINS

RULE 39. Passenger trains leaving Portland will not make running test until after crossing Willamette River bridge.

MISCELLANEOUS

1. Portland: To assist proper stopping eastward passenger trains arriving Union Station, Stationmaster will give stop signal when train is one car-length from point of final stop. Rear Brakeman will sound communicating signal 16(b) (o o) when stop signal is given.

Engineer on Train No. 11 will apply brakes as soon as NP Train No. 408 stops, keeping them applied until communicating signal whistle indicates cars from NP No. 408 have been coupled to Train No. 11 and air cut in, thereby avoiding moving Train No. 11 when coupling is made and train is stretched.

2. Portland Union Station: Tracks Nos. 1 to 10 inclusive have impaired side clearance and will not clear man on side of car.

3. Only engines listed may operate on tracks shown below:

2700-2708, 2711-2742, 3800-3830	Lebanon—Crown Zellerbach Co. tracks except No. 3 track beyond frog.
No engines	Lyons—Between clearance point East end Freres Plywood track and 750 feet west.
5100-5120, 1000-2394	Dry Creek—On industry track at airport. Monroe—House track and Brickyard spur
5100-5120, 1000-2288	Salem—Kay Woolen Mill spur; Trade and Front St. tracks; Blue Lake lead.
No engines	Canby—Beyond engine restriction signs old pit and outfit tracks.
1000-2394	Brooklyn—Libby McNeill and Libby lead. E. Portland — Mayflower Farms spur; Mason Supply Co. (12th St. spur.)
No engines	Oregon City—Between engine restriction signs on Publishers Paper Co. track.
No engines	Lake Oswego—Beyond engine restriction signs on Cement Plant tracks Nos. 1, 2, 4, 5, and 6. Lake Oswego—Over crossover from track No. 3A to track No. 3 at rock dump and cars and engines must not be operated over car unloader at Cement plant.
No cars or engines	Juno—Beyond chip loader at North Plains Lumber Co.
No engines	Tillamook—Beyond engine restriction signs on team track and Union Oil spur.
No engines	Toledo—Georgia-Pacific Paper Mill. On scale spur and crossover between outside track and scale spur track and on outside or inside track beyond point opposite west end of rotary dumper shed.
No engines	V. & S. Jct.—Boise Cascade—Beyond engine restriction signs on tracks Nos. 6, 7 and 8.

4. The following cars must not be operated between Summit and Toledo, Timber and Tillamook, Shelburn and West Stayton:

Wood Chip Cars
SP 351298, SP 351967
SP 354000 series
SP 352,000—SP 352017, inc.
Veneer Cars

SP-208161-H to 208208-H inclusive		SP-208578-H
	SP-208852-H	SP-208962-H
SP-208563-H	SP-208869-H	SP-208996-H
SP-208572-H	SP-208877-H	SP-209018-H
SP-208594-H	SP-208880-H	SP-209030-H
SP-208614-H	SP-208886-H	SP-209034-H
SP-208631-H	SP-208890-H	SP-209048-H
SP-208688-H	SP-208899-H	SP-209055-H
SP-208745-H	SP-208917-H	SP-209083-H
SP-208751-H	SP-208921-H	SP-209088-H
SP-208825-H	SP-208943-H	SP-209527-H
SP-208830-H	SP-208945-H	SP-213892-H
SP-208851-H	SP-208959-H	to SP-213941-H
SP-615082-H to 615131-H inclusive		

All cars 85 feet or longer.

5. Eighty-five foot or longer cars must not operate on tracks shown below:

Dallas Branch,	
Willamina Branch,	
East Portland	Mason Supply Co. (12th St. spur), Mayflower Farms.
Brooklyn	Libby McNeill & Libby lead and lead to North Pacific Canners & Packers, Inc.
Clackamas	Safeway Stores, Inc.
Salem	Thomas Kay Woolen Mills and Front Street curve on Chemeketa,
Albany	Copeland Lbr. Yard (off interchange),
Eugene	Jenne spur,
Jefferson Street	Oregon Chain Co., Overhead Door Co., Zidell Machinery & Supply Co. and Alaska Junk Co.
Willsburg Jct.	U.S Rubber and Rudie Wilhelm's Co., Inc.

6. East Portland: Movements with passenger equipment must not be made through crossover between main tracks, just east of Stark Street.

Brooklyn: Movements with passenger equipment must not be made through crossover between main track and yard just west of Lafayette Street.

7. Load limit (car and contents):

Eugene-Portland	315,000 lbs.
Albany-Mill City	240,000 lbs.
Springfield-Coburg	169,000 lbs.
Tallman-Coburg	240,000 lbs.
West Stayton-Woodburn	240,000 lbs.
Salem-Geer	240.000 lbs.
Albany-Toledo	240,000 lbs.
Salem-Buman	240,000 lbs.
Monroe-Hillsboro	240,000 lbs.
St. Joseph-Cook	240,000 lbs.
Alpine Jct.-Dawson	240.000 lbs.
Whiteson-Willamina	240,000 lbs.
Broadmead-Perrydale	199.000 lbs.
Canby-Molalla	240.000 lbs.
Wilsonia-Jefferson St.	240.000 lbs.
Tillamook-Willsburg Jct.	240,000 lbs.

Unless authorized by Superintendent, heavier loads must not be handled.

8. LOCATION OF STOCK YARDS

Station		Capacity in cars
Brooklyn	(2 pens)	2 (Water)
Eugene	(3 pens)	6 (Water)

9.

LOCATION OF OVERHEAD AND SIDE STRUCTURES NOT STANDARD CLEARANCE ON MAIN TRACK AND SIDINGS

MAIN LINE

Mile Post	Location	Description	
698.93	East of Millersburg	N. Santiam River Crossing	Overhd & Side

WOODBURN-SPRINGFIELD BRANCH

Mile Post	Location	Description	
650.25	East of Springfield	McKenzie River Crossing	Overhd & Side
671.67	East of Rowland	Calapooia River Crossing	Overhd & Side
698.48	East of Crabtree	Crabtree Creek Crossing	Overhd & Side
698.58	East of Crabtree	N. Fork Crabtree Creek Crossing	Overhd & Side
706.29	East of Shelburn	N. Santiam River Crossing	Overhd & Side

MILL CITY BRANCH

Mile Post	Location	Description	
714.00	East of Shelburn	Rock cut	Side

DALLAS BRANCH

Mile Post	Location	Description	
719.74	East of Salem	Willamette River Crossing	Overhd & Side

WEST SIDE BRANCH

Mile Post	Location	Description	
731.85	East of Whiteson	S. Yamhill River Crossing	Overhd & Side
702.96	East of Suver	Luckiamute River Crossing	Overhd & Side

TOLEDO BRANCH

Mile Post	Location	Description	
691.70	Albany	First Street Crossing	Side
691.82	Albany	Willamette River Crossing	Overhd & Side
711.35	East of Flynn	1st Crossing Marys River	Overhd & Side
714.81	East of Flynn	Rock cut	Side
752.40	East of Eddyville	Tunnel No. 24	Overhd & Side

NEWBERG BRANCH

Mile Post	Location	Description	
762.12	East of Tualatin	Tualatin River Crossing	Overhd & Side

WILLAMINA BRANCH

Mile Post	Location	Description	
745.27	East of Sheridan	S. Yamhill River Crossing	Side

TILLAMOOK BRANCH

Mile Post	Location	Description	
789.60	East of Timber	Tunnel No. 25	Overhd & Side
801.80	West of Cochran	Tunnel No. 26	Overhd & Side
803.60	West of Cochran	Tunnel No. 27	Overhd & Side
805.70	West of Cochran	Tunnel No. 28	Overhd & Side
806.20	West of Cochran	Tunnel No. 29	Overhd & Side
806.50	West of Cochran	Tunnel No. 30	Overhd & Side
807.90	West of Cochran	Tunnel No. 32	Overhd & Side
808.50	West of Cochran	Tunnel No. 34	Overhd & Side
809.50	West of Cochran	Rock cut	Side
809.90	West of Cochran	Tunnel No. 35	Overhd & Side
810.20	West of Cochran	Rock cut	Side
810.40	West of Cochran	Rock cut	Side
810.70	West of Cochran	Tunnel No. 36	Overhd & Side
813.90	West of Enright	Rock cut	Side
815.00	West of Enright	Rock cut	Side
815.50	West of Enright	Rock cut	Side
815.81	West of Salmonberry	1st Crossing Nehalem River	Overhd & Side
817.90	West of Salmonberry	Rock cut	Side
819.00	West of Salmonberry	Rock cut	Side
822.10	West of Salmonberry	Rock cut	Side
830.50	West of Batterson	Rock cut	Side
830.89	West of Batterson	2nd Crossing Nehalem River	Overhd & Side
846.85	West of Miami	Miami River Crossing	Overhd & Side
852.74	West of Bay City	Kelchis River Crossing	Overhd & Side
854.37	West of Juno	Wilson River Crossing	Overhd & Side

10. **Pulp:** Portable platform across paper loading track to handle shipments from boats to warehouse. Careful inspection must be made to know that this platform has been removed before coupling to cars or switching on this track.

11. **Jefferson St.:** SPCo. employes will not handle cars on Overhead Door Co. track beyond point 25 feet inside of gate.

12. **Albany:** Water Street Lead: Overhead impaired clearance 18′3″ under U.S. Highway 20, Ellsworth Street.

13. **Dallas:** Trainmen must not operate beyond restriction sign located to left of tracks 145 feet beyond clearance point Willamette Valley Lbr. Co. chip loading tracks.

14. **Sheridan:** SP Co. employees must not move cars beyond chip loader on 4H Veneer track.

15. **Woodburn:** Impaired side clearance Woodburn Feed & Fertilizer spur.

SPECIAL INSTRUCTIONS—BROOKLYN SUBDIVISION

SPEED RESTRICTIONS FOR TRAINS: Maximum speed of trains in territory shown below is subject to further restrictions applicable to engines in the train as shown in SPEED RESTRICTIONS FOR ENGINES appearing on page 7 and MAXIMUM SPEED PERMITTED WITH CERTAIN EQUIPMENT, appearing on page 6 of Special Instructions for All Subdivisions. Speed must be further reduced as prescribed by speed signs, except as specifically authorized by Special Instructions herein, or by timetable bulletin.

All trains must run carefully during and after heavy storms, particularly when the track is apt to be affected. When fog, storms or other conditions obscure track or signals, speed of trains must be so reduced as to permit strict observance of signals and INSURE SAFETY, REGARDLESS OF TIME.

EASTWARD	PSGR TRAINS	FRT & MIXED	WESTWARD	PSGR TRAINS	FRT & MIXED
MP MP Column:	1	2	MP MP Column:	1	2
EUGENE TO PORTLAND:			PORTLAND TO EUGENE:		
***647.30 to 648.20. .	30	30	771.00 to 770.70 . . .	6	6
648.20 to 689.61. . . .	70	60	770.70 to 770.25 . . .	8	8
689.61 to 690.36 . . .	70	50	770.25 to 767.90 . . .	20	20
			767.90 to 764.30 . . .	65	60
			***764.30 to 764.10 . .	45	45
			764.10 to 758.00 . . .	65	60
			758.00 to 756.31 . . .	50	50
***690.36 to 692.50. .	30	30	***756.31 to 754.35. .	40	40
692.50 to 699.06. . . .	70	60	754.35 to 750.35 . . .	55	55
699.06 to 699.58 . . .	60	60	750.35 to 748.95 . . .	35	35
699.58 to 715.77. . . .	70	60	748.95 to 746.92 . . .	70	60
715.77 to 716.52 . . .	70	55	***746.92 to 746.62 . .	50	50
***716.52 to 717.95. .	35	35	746.62 to 744.35 . . .	70	60
			***744.35 to 742.72. .	45	45
			742.72 to 735.76 . . .	70	60
			***735.76 to 734.45 . .	45	45
			734.45 to 721.31 . . .	70	60
			721.31 to 720.56 . . .	70	55
***717.95 to 718.85. .	20	20	***720.56 to 718.85. .	35	35
***718.85 to 720.56. .	35	35	***718.85 to 717.95. .	20	20
720.56 to 734.45 . . .	70	60	***717.95 to 716.52. .	35	35
***734.45 to 735.76. .	45	45	716.52 to 699.58. . . .	70	60
735.76 to 742.72 . . .	70	60	699.58 to 699.06 . . .	60	60
***742.72 to 744.35 . .	45	45	699.06 to 693.25. . . .	70	60
744.35 to 746.62 . . .	70	60			
***746.62 to 746.92 . .	50	50			
746.92 to 748.20 . . .	70	60			
748.20 to 748.95 . . .	70	55			
748.95 to 750.35 . . .	35	35	693.25 to 692.50 . . .	70	55
750.35 to 754.35 . . .	55	55	***692.50 to 690.36 . .	30	30
***754.35 to 756.31. .	40	40	690.36 to 648.95. . . .	70	60
756.31 to 758.00. . .	50	50	648.95 to 648.20. . . .	70	55
758.00 to 764.10. . .	65	60	***648.20 to 647.30 . .	30	30
***764.10 to 764.30. .	45	45			
764.30 to 767.15 . . .	65	60			
767.15 to 767.90 . . .	65	45			
767.90 to 770.25 . . .	20	20			
770.25 to 770.70 . . .	8	8			
770.70 to 771.00 . . .	6	6			

SPEED RESTRICTIONS FOR OTHER THAN MAIN TRACKS	With Caution Not Exceeding MPH
Through sidings, yard and other tracks, wyes, balloon tracks, crossovers and turnouts, except	15
Through turnouts and sidings at Irving, Swain, Alford, Shedd, Hallawell, Millersburg, Marion, Renard, Labish, Gervais, Hito, Coalca, Clackamas.	25
Through slip switches.	10
Through turnouts on other than sidings.	10
On Union Station tracks, Portland.	6

**ICC Regulation.

***PUC Order.

EASTWARD	ALL TRAINS	WESTWARD	ALL TRAINS
MP MP Column:	1	MP MP Column:	1
ALBANY TO TALLMAN:	25	TALLMAN TO ALBANY:	25
SPRINGFIELD TO WOODBURN:		WOODBURN TO SPRINGFIELD:	
645.00 to 645.12	15	737.80 to 737.64	10
645.12 to 652.20	25	737.64 to 727.45	35
652.20 to 684.87	15	727.45 to 725.15	25
684.87 to 687.83	40	725.15 to 719.45	35
687.83 to 690.07	15	719.45 to 719.10	15
690.07 to 696.18	30	719.10 to 717.45	20
696.18 to 700.25	25	717.45 to 714.90	15
700.25 to 704.67	30	714.90 to 712.95	20
704.67 to 712.95	15	712.95 to 704.67	15
712.95 to 714.90	20	704.67 to 700.25	30
714.90 to 717.45	15	700.25 to 696.18	25
717.45 to 719.10	20	696.18 to 690.07	30
719.10 to 719.45	15	690.07 to 687.83	15
719.45 to 725.15	35	687.83 to 684.87	40
725.15 to 727.45	25	684.87 to 652.20	15
727.45 to 737.64	35	652.20 to 645.12	25
737.64 to 737.80	10	645.12 to 645.00	15
SHELBURN TO END MILL CITY BRANCH:		END MILL CITY BRANCH TO SHELBURN:	
704.93 to 705.00	10	727.88 to 724.90.	15
705.00 to 705.40	15	724.90 to 720.00.	40
705.40 to 710.25	40	720.00 to 719.10	15
710.25 to 711.25	15	719.10 to 717.84	40
711.25 to 713.65	25	717.84 to 715.64	30
713.65 to 714.26	20	715.65 to 714.26	25
714.26 to 715.64	25	714.26 to 713.65	20
715.64 to 717.84	30	713.65 to 711.25	25
717.84 to 719.10	40	711.25 to 710.25	15
719.10 to 720.00	15	710.25 to 705.40	40
720.00 to 724.90	40	705.40 to 705.00	15
724.90 to 727.88	15	705.00 to 704.93	10
SALEM TO GEER:		GEER TO SALEM:	
725.93 to 725.73	15	719.12 to 719.34	15
***725.73 to 724.70	25	719.34 to 724.70	35
724.70 to 719.34	35	***724.70 to 725.73	25
719.34 to 719.12	15	725.73 to 725.93	15
ALBANY TO TOLEDO:		TOLEDO TO ALBANY:	
690.90 to 691.35	25	766.00 to 763.50	20
**691.35 to 691.93	15	763.50 to 752.46	25
691.93 to 692.80	35	752.46 to 752.28	20
692.80 to 695.49	40	752.28 to 734.40	25
695.49 to 696.20	35	734.40 to 732.00	20
696.20 to 701.45	40	732.00 to 728.66	15
701.45 to 702.10	35	728.66 to 708.50	20
702.10 to 689.80	15	708.50 to 705.05	40
689.80 to 688.67	20	705.05 to 704.33	30
688.67 to 703.30	15	704.33 to 703.30	20
703.30 to 704.33	20	703.30 to 688.67	15
704.33 to 705.05	30	688.67 to 689.80	20
705.05 to 708.50	40	689.80 to 702.10	15
708.50 to 728.66	20	702.10 to 701.45	35
728.66 to 732.00	15	701.45 to 696.20	40
732.00 to 734.40	20	696.20 to 695.20	35
734.40 to 752.28	25	695.49 to 692.80	40
752.28 to 752.46	20	692.80 to 691.93	35
752.46 to 763.50	25	**691.93 to 691.35	15
763.50 to 766.00	20	691.35 to 690.90	25

SPEED RESTRICTIONS FOR TRAINS: Continued.

EASTWARD	ALL TRAINS	WESTWARD	ALL TRAINS
MP MP Column:	1	MP MP Column:	1
SALEM TO END-DALLAS BRANCH:		END-DALLAS BRANCH TO SALEM:	
**718.80 to 720.04	15	740.94 to 733.80	15
720.04 to 721.18	25	733.80 to 724.60	40
721.18 to 724.60	30	724.60 to 721.18	30
724.60 to 733.80	40	721.18 to 720.04	25
733.80 to 740.94	15	**720.04 to 718.80	15
MONROE TO HILLSBORO:		HILLSBORO TO MONROE:	
671.48 to 688.13	30	***765.35 to 765.20	20
***688.13 to 688.79	20	***765.20 to 764.54	25
***688.79 to 689.29	15	764.54 to 762.22	40
***689.29 to 689.82	20	***762.22 to 760.29	12
689.82 to 690.48	25	760.29 to 753.22	40
690.48 to 709.04	40	***753.22 to 752.81	15
709.04 to 709.31	25	752.81 to 746.00	40
***709.31 to 709.50	10	***746.00 to 745.49	25
709.50 to 710.10	25	745.49 to 742.69	40
710.10 to 727.81	40	***742.69 to 741.90	25
***727.81 to 728.53	25	741.90 to 735.72	40
728.53 to 733.59	40	***735.72 to 733.59	25
***733.59 to 735.72	25	733.59 to 728.53	40
735.72 to 741.90	40	***728.53 to 727.81	25
***741.90 to 742.69	25	727.81 to 710.10	40
742.69 to 745.49	40	710.10 to 709.50	25
***745.49 to 746.00	25	***709.50 to 709.31	10
746.00 to 752.81	40	709.31 to 709.04	25
***752.81 to 753.22	15	709.04 to 690.48	40
753.22 to 760.29	40	690.48 to 689.82	25
***760.29 to 762.22	12	***689.82 to 689.29	20
762.22 to 764.54	40	***689.29 to 688.79	15
***764.54 to 765.20	25	***688.79 to 688.13	20
***765.20 to 765.35	20	688.13 to 671.48	30
ST. JOSEPH TO COOK:		COOK TO ST. JOSEPH:	
737.89 to 745.80	30	763.98 to 757.35	30
745.80 to 746.40	25	757.35 to 754.00	20
746.40 to 748.09	30	754.00 to 753.60	15
*748.09 to 749.07	15	753.60 to 750.95	20
749.07 to 750.95	30	750.95 to 749.07	30
750.95 to 753.60	20	*749.07 to 748.09	15
753.60 to 754.00	15	748.09 to 746.40	30
754.00 to 757.35	20	746.40 to 745.80	25
757.35 to 763.98	30	745.80 to 737.89	30
ALPINE JCT. TO DAWSON	20	DAWSON TO ALPINE JCT	20
WHITESON TO WILLAMINA:		WILLAMINA TO WHITESON:	
730.46 to 730.73	15	749.46 to 744.90	30
730.73 to 737.70	40	744.90 to 742.75	20
737.70 to 737.79	30	742.75 to 737.79	40
737.79 to 742.75	40	737.79 to 737.70	30
742.75 to 744.90	20	737.70 to 730.73	40
744.90 to 749.46	30	730.73 to 730.46	15
BROADMEAD TO PERRYDALE	15	PERRYDALE TO BROADMEAD	15
CANBY TO MOLALLA:		MOLALLA TO CANBY:	
747.52 to 747.69	15	757.81 to 757.20	20
747.69 to 757.20	30	757.20 to 747.69	30
757.20 to 757.81	20	747.69 to 747.52	15
WILSONIA TO JEFFERSON ST	20	JEFFERSON ST. TO WILSONIA	20

EASTWARD	ALL TRAINS	WESTWARD	ALL TRAINS
MP MP Column:	1	MP MP Column:	1
TILLAMOOK TO WILLSBURG JCT.:		WILLSBURG JCT. TO TILLAMOOK:	
***855.80 to 855.58	20	740.72 to 741.60	30
855.58 to 854.28	30	741.60 to 742.17	12
854.28 to 850.70	35	742.17 to 743.10	30
***850.70 to 847.00	30	743.10 to 745.16	10
***847.00 to 844.40	20	745.16 to 751.88	30
844.40 to 841.31	30	**751.88 to 756.20	20
***841.31 to 839.83	25	756.20 to 764.86	30
839.83 to 837.00	30	764.86 to 765.06	15
837.00 to 836.50	20	765.06 to 765.90	20
836.50 to 835.20	25	765.90 to 767.14	30
835.20 to 833.16	30	767.14 to 781.69	35
***833.16 to 832.86	25	681.69 to 800.00	20
832.86 to 831.00	30	800.00 to 811.76	15
831.00 to 830.16	20	811.76 to 815.99	20
830.16 to 828.76	25	815.99 to 817.58	25
828.76 to 828.22	20	817.58 to 822.40	30
828.22 to 823.52	30	822.40 to 823.52	20
823.52 to 822.40	20	823.52 to 828.22	30
822.40 to 817.58	30	828.22 to 828.76	20
817.58 to 815.99	25	828.76 to 830.16	25
815.99 to 811.76	20	830.16 to 831.00	20
811.76 to 800.00	15	831.00 to 832.86	30
800.00 to 781.69	20	***832.86 to 833.16	25
781.69 to 767.14	35	833.16 to 835.20	30
767.14 to 765.90	30	835.20 to 836.50	25
765.90 to 765.06	20	836.50 to 837.00	20
765.06 to 764.86	15	837.00 to 839.83	30
764.86 to 756.20	30	***839.83 to 841.31	25
**756.20 to 751.88	20	841.31 to 844.40	30
751.88 to 745.16	30	***844.40 to 847.00	20
745.16 to 743.10	10	***847.00 to 850.70	30
743.10 to 742.17	30	850.70 to 854.28	35
742.17 to 741.60	12	854.28 to 855.58	30
741.60 to 740.72	30	***855.58 to 855.80	20

*Regulated by City Ordinance.
**ICC Regulation.
***PUC.

RATING OF ENGINES—In Units of 2000 Lbs. (Tons)

NOMINAL CLASS		ENGINE NUMBERS	Eugene to Salem	Salem to Barlow	Barlow to Canby Oregon City to Clackamas	Canby to Oregon City Clackamas to Brooklyn	Brooklyn to E. Milwaukie Clackamas to Oregon City	E. Milwaukie to Clackamas Oregon City to Coalca	Coalca to Canby Aurora to Hito	Canby to Aurora Hito to Salem	Salem to Eugene
1	EF415A	352, 359-379, 6172-6189, 6191-6193, 6206-6382, 6384-6385, 6387, 6392, 6394-6440, 6443, 6463-6470	2750	2975	2375	2975	1800	2975	1800	2975	2375
2	EP415A	354-357, 6190, 6203, 6383, 6386, 6388-6391, 6393, 6441-6442, 6444-6461	2025	2350	1900	2350	1375	2350	1375	2350	1900
3	EF415B	535-539, 547-553, 8043-8090, 8099-8101, 8104, 8110, 8112, 8115-8117, 8119-8121, 8123-8124, 8140-8284, 8292, 8295, 8299-8300, 8305	2750	2975	2375	2975	1800	2975	1800	2975	2375
4	EP415B	540-545, 8091-8095, 8103, 8106-8109, 8111, 8114, 8118, 8122, 8126-8139, 8290-8291, 8293-8294, 8296-8298, 8301-8303	2025	2350	1900	2350	1375	2350	1375	2350	1900
5	ES406	1000-1032	1100	1275	1025	1275	750	1275	750	1275	1025
6	AS407 ES408 ES408B	1100-1128, 1150-1153	2200	2550	2025	2550	1525	2550	1525	2550	2025
7	ES409	1170-1179	2400	2800	2200	2800	1625	2800	1625	2800	2200
8	AS409	1200-1257	1950	2225	1775	2225	1300	2225	1300	2225	1775
9	AS409	1270-1281	2625	3025	2425	3025	1850	3025	1850	3025	2425
10	AS410	1703-1720, 1766-1781, 1792-1845	1675	1925	1550	1925	1150	1925	1150	1925	1550
11	BS412	2100-2120, 2126-2157	2325	2500	2125	2500	1575	2500	1575	2500	2125
12	FS412	2350-2394	2025	2350	1900	2350	1400	2350	1400	2350	1900
13	EF618, ES615	2700-2742, 3800-3966	4350	5000	4000	5000	3000	5000	3000	5000	4000
14	AS418	2900-2936									
15	EP418, EF418	3002-3003, 3008-3009, 3441-3550, 3571-3640, 3663-3727	3325	3825	3075	3825	2325	3825	2325	3825	3075
16	BS615 BS615B BS616 BS616B	4900-4902, 5208-5248, 5254-5278	3550	4000	3250	4000	2425	4000	2425	4000	3250
17	BS616 BS616B	4903-4905, 5252	5225	6100	4775	6100	3525	6100	3525	6100	4775
18	GS407	5100-5120	1375	1600	1275	1600	950	1600	950	1600	1275
19	EP620A&B EP623A EP624A	6000-6004, 6017, 6018, 6046-6054, 5900-5917	2275	2650	2100	2650	1550	2650	1550	2650	2100
20	AP620A	6026-6045	2300	2675	2125	2675	1575	2675	1575	2675	2125
21	KF636 KF636A	9100-9120	5125	5950	4725	5950	3550	5950	3550	5950	4725

ON BRANCH LINES, UNLESS AUTHORIZED BY SUPERINTENDENT, ENGINES WILL NOT BE PERMITTED TO OPERATE IN THOSE TERRITORIES WHERE NO RATING IS SHOWN IN ENGINE RATING TABLE.

RATING OF ENGINES—In Units of 2000 Lbs. (Tons)

NOMINAL CLASS	TALLMAN		WOODBURN-SPRINGFIELD BRANCH												MILL CITY		MOL.
For rating find line number on which engine is listed on page 16 and use corresponding line number below.	Albany to Lebanon	Lebanon to Albany	Springfield to Coburg	Coburg to Tallman	Lebanon and Griggs	Aumsville to Geer	Geer to Woodburn	Woodburn to Geer	Geer to Aumsville	Griggs and MP 706	MP 706 and MP 707 Wood-Springfield Branch	MP 707 to Aumsville	MP 838 to Aumsville Tallman to Coburg	Coburg to Springfield	Shelburn to Mill City	Mill City to Shelburn	Canby and Molalla
1, 2, 3 and 4	3800	6050					③	③									③
5	1625	4000			1150					⑥1150					⑤600	⑤1000	600
6	3300	4000					③	③									③
7	3650	4000					③	③									③
8	2900	4000			2075												1075
9	3950	4000					③	③									③
10	3150	4000			2225												①1175
11	3000	4000			2200												②1175
12	3000	4000			2200												③
13	5450	10000		④5000	④3900	④2150	2450	1750	④1100	④3900		④3900	④3425		④2625	④3425	2375
15							③	③									③
18	1625	3000	1875	1875	1475	800	800	575	425	1475	1475	1475	1300	1300	850	1300	775

①Does not apply to engines 1829-1845.
②Applies to engines 2100-2120 only.
③Authorized to use in Woodburn and Canby Yard limits.
④Does not include engines 3850-3966.
⑤Restricted to 20 MPH, engines 1024-1032 restricted to 25 MPH.
⑥Restricted to 20 MPH.
SP&S engines may operate between Albany and Lebanon.

NOMINAL CLASS	TOLEDO BRANCH									DALLAS BRANCH				GEER	
For rating find line number on which engine is listed on page 16 and use corresponding line number below.	Albany to Corvallis	Corvallis to Flynn	Flynn to Summit	Summit to Nashville	Nashville and Toledo	Nashville to Summit	Summit to Flynn	Flynn to Corvallis	Corvallis to Albany	Salem to Dallas	Dallas to MP 740.9	MP 740.9 to Dallas	Dallas to Salem	Salem to Geer	Gear to Salem
1, 2, 3 and 4	2275	1850	1300	8000	2825	750	2350	2350	6050	3200			3200		
5	950	625	450	1600	1075	300	700	1175	4000	750			475	650	4000
6	1950	1325	975	4000	2250	600	1400	2375	4000					1375	4000
7	2100	1450	1000	4000	2425	675	1525	2575	4000						
8	1700	1150	825	2850	1950	525	1200	2100	4000	1300			925		
9	2325	1600	1125	4000	2675	725	1700	2825	4000						
10	1825	1050	875	3000	3100	575	1300	2225	4000	①1150			①1000		
11	1850	1050	875	3000	2100	575	1300	2225	4000	②1575			②1000		
12	1800	1000	850	4000	2075	525	1300	2225	4000						
13	3775	2600	1600	10000	3700	1100	2375	4675	10000	3000	1925	1900	2050	2625	10000
14	3000	2275	1575	8000	2825	900	2375	4000	10000	3950			3950		
15	3000	2350	1625	8000	2825	925	2375	4000	10000	4075			4075		
18	1225	825	600	2000	1400	375	875	1475	3000	950	700	850	575	850	3000

①Does not apply to engines 1829-1845.
②Does not apply to engines 2146-2157.

ON BRANCH LINES, UNLESS AUTHORIZED BY SUPERINTENDENT, ENGINES WILL NOT BE PERMITTED TO OPERATE IN THOSE TERRITORIES WHERE NO RATING IS SHOWN IN ENGINE RATING TABLE.

SPECIAL INSTRUCTIONS—BROOKLYN SUBDIVISION

RATING OF ENGINES—In Units of 2000 Lbs. (Tons)

NOMINAL CLASS For rating find line number on which engine is listed on page 16 and use corresponding line number below.	WESTSIDE BRANCH						DAWSON		WILLAMINA BRANCH		
	Monroe to Corvallis	Corvallis to Gaston	Gaston to Hillsboro	Hillsboro to Gaston	Gaston to Corvallis	Corvallis to Monroe	Dawson to Alpine Jct	Alpine Jct. to Dawson	Whiteson and Broadmead and Perrydale Branch	Broadmead to Willamina	Willamina to Broadmead
1, 2, 3 and 4	......	1525	1525	1625	1625	......	......	......	......	......	......
5	1750	650	900	700	550	400	1350	475	......	750	475
8	......	1150	1600	......	......	725	1950	875	......	......	......
10	3325	......	......	......	......	800	2100	825	......	......	......
11	3500	......	......	......	......	825	2125	950	......	......	......
12	3200	1325	......	......	......	775	2025	900	......	......	......
13	7000	2600	3575	3725	2300	1700	4300	1925	2100	2950	1975
14	......	2000	2000	2000	2000	......	......	......	......	......	......
15	......	2075	2075	2075	2075	......	......	......	......	......	......
18	3000	850	1150	925	750	1200	1700	475	675	950	650

NOMINAL CLASS For rating find line number on which engine is listed on page 16 and use corresponding line number below.	JEFFERSON ST.		TILLAMOOK BRANCH										NEWBERG BRANCH				
	Wilsonia to Jefferson St.	Jefferson St. to Wilsonia	Tillamook to Salmonberry	Salmonberry to Enright	Timber and Enright	Timber to Buxton	Enright to Tillamook Buxton to Hillsboro	Hillsboro to Buxton	Buxton to Timber	Hillsboro to Cook	Willsburg Jct. to Cook Cook to Hillsboro	Cook to Willsburg Jct.	Sherwood to Springbrook St. Joseph to Springbrook	Cook to Sherwood	Springbrook to Sherwood	Sherwood to Cook	Springbrook to St. Joseph
1, 2, 3 and 4	①1325	①1150	......	......	......	......	......	......	......	2600	1900	2600	1600	1700	950	4150	4000
5	550	475	775	400	200	475	1150	1075	300	900	700	900	675	700	320	900	1750
8	975	825	......	800	400	925	......	......	550	550	1600	......	1175	1250	675	1600	3050
10	925	800	......	850	425	1000	......	......	600	......	......	......	1275	1375	700	1725	3325
11	1075	925	......	850	425	1000	......	......	600	......	......	......	1275	1375	700	1725	3200
12	1025	875	......	825	400	975	......	......	600	......	......	......	1250	1325	700	1700	3200
13	2175	1900	3000	1800	850	2050	4675	4325	1200	3850	3050	3575	2275	2850	1500	3575	7000
14	3975	2300	......	......	......	......	......	......	......	3750	2350	3750	1425	3650	1375	2825	2200
15	3725	2275	......	......	......	......	......	......	......	3900	2450	3900	1450	3550	1425	2825	2250
18	550	475	950	575	275	675	1475	1375	400	1150	925	1150	850	925	500	1150	2200

①Does not apply to engines 6189, 6191-6193, 6206-6238, 6440-6461, 6463-6465, 6468-6469, 8086-8139, 8290-8303.

SP&S Ry engines may operate between Greton and Beburg—DES class not to exceed 248,000 pounds.

ON BRANCH LINES, UNLESS AUTHORIZED BY SUPERINTENDENT, ENGINES WILL NOT BE PERMITTED TO OPERATE IN THOSE TERRITORIES WHERE NO RATING IS SHOWN IN ENGINE RATING TABLE.

SPECIAL INSTRUCTIONS—CASCADE SUBDIVISION

RULE M. 4800 volt power line on signal pole line Kirk to Umli. If found broken or down extreme caution must be used and prompt report made from first available means of communication.

RULE 14(k). Will not apply between Eugene and Klamath Falls.

RULES 21-A, 21-B, 21-C: Extra trains operating between Klamath Falls and Eugene Yard, except on branch lines, are not required to display train indicators or white lights, except trains handling loads of excess dimension covered by train-order will display train indicators which need not be removed at destination.

RULE 22. Helper engines coupled ahead of road engines need not display indicators between Eugene Yard and Cascade Summit.

RULE 82-A. Eugene: Regular trains authorized on Cascade Subdivision and terminating at Eugene, may assume the corresponding schedule on the Brooklyn Subdivision without obtaining clearance at Eugene.

Regular trains authorized on the Brooklyn Subdivision, terminating at Eugene may assume the corresponding schedule on the Cascade Subdivision without obtaining clearance at Eugene. Train-orders may be issued on Brooklyn or Cascade Subdivision to apply on either subdivision.

When crews of regular or extra trains are relieved at Eugene all train-orders and instructions must be delivered to relieving crews; except when outgoing engineer is not available at time incoming engineer is released, train-orders and instructions will be given to conductor for delivery to outgoing engineer.

Crescent Lake: Regular trains must be re-authorized at Crescent Lake by receipt of clearance bearing okay time and initials of Chief Train Dispatcher and must be endorsed "Green" or "No" signals as the case may be and Rule 96 will not apply.

Klamath Falls: Trains originating Klamath Falls will obtain clearance issued at Klamath Falls Yard and delivered by tube to Crew Dispatchers' Office, Klamath Falls. Clearance and train orders for first-class trains will be delivered in red container and for extra trains in yellow container.

Marcola Branch: Trains authorized to operate on Marcola Branch must not occupy main track between MP-649.25 Hendricks and MP-659.7 Hyland between the hours of 5:00 AM. and 5:00 PM. on Monday through Saturday.

RULE 83. Trains via Siskiyou Subdivision may identify trains between Eugene Yard and Judkins and such identification will apply at Springfield Jct.

Extra trains operating between Mohawk Jct. and Hyland, in addition to information required by train register must register destination of trip, turning point and date of departure in the column captioned "Signals." When trip has been completed, date of arrival at initial station must also be entered in column captioned "Signals." Extra trains en route into this territory must not leave the initial station until it has been ascertained from the train register that all preceding extra trains by the route to be used have completed their trip and registered time and date of arrival at Mohawk Jct. accordingly.

RULE 83-B. At open train order offices trains may register by ticket as follows:

Crescent Lake................................First-class trains.

RULE 93. Yard limits in which the provisions of Rule 93 will apply, except within CTC limits, are established at the following stations:

West MP		East MP
427.50	Klamath Falls	429.81
551.80	Klamath Falls, Modoc Subdivision	
527.17	Crescent Lake	529.08
612.07	Fall Creek Jct. (Fall Creek Branch)	End of Branch
	Springfield (Woodburn-Springfield Branch)	646.04
	Springfield (Marcola Branch)	649.00
643.00	Eugene (Siskiyou Subdivision)	
	Eugene (Brooklyn Subdivision)	652.00
	Eugene (Coos Bay Branch)	652.29

RULE 97. Extra trains between Mohawk Jct. and Hyland are authorized to operate as extra train in this territory without train-order authority.

RULE 99. Will not apply between Mohawk Jct. and Hyland.

RULE 99-A. Between the following locations, except on trains carrying passengers, flag protection is not required:

End of CTC, MP 425.8 and MP 432.66.
End of CTC, MP 527.23 and End of CTC, MP 529.03.
"A" signal, MP 618.4 and west switch Judkins.
End of CTC, MP 647.62 and End of CTC, MP 652.0.

RULE 104. The normal position of rigid switches at junction points is as follows:

Fall Creek Jct..............Fall Creek Branch for Cascade line,
Mohawk Jct..............Marcola Branch. for track No. 3,
Springfield.........Woodburn-Springfield Branch, for Cascade line,
Klamath Falls..GNRy main track, for SP main track,
Gilchrist Jct....KNRy main track, for interchange track,
Derails in main track:
Fall Creek Jct...........Clearance point junction switch.
Marcola..............200 feet east of east switch.

Hendricks: Switch from Marcola Branch to Weyerhaeuser Company plant tracks is lined for movement to Weyerhaeuser tracks.

RULE 221. Springfield is a train order office only for trains via Siskiyou Subdivision.

Chemult is a train-order office for westward GNRy trains only.

RULE 291. Klamath Falls: Unit for display of flashing yellow installed on westward absolute signal, MP 429.87 and display of flashing yellow authorizes trains to proceed without stopping at restricted speed to enter Track No. 25.

RULE 306. The following block signals, equipped with triangular plate bearing the letter "P" have included in their control limits some special protective device. Absolute signals are listed as "P-A":

Eastward Signal	Protection	Westward Signal
P-4406	Slide detector fence between MP 441.9 and MP 442.4	P-4423
P-4424	Slide detector fence between MP 442.4 and MP 444.0	P-4441
P-4440	Slide detector fence between MP 444.0 and MP 445.5	P-4455
P-4456	Slide detector fence between MP 445.6 and MP 446.1	P-A P-A
P-A	Fire detector Cascade Creek Bridge, MP 546.38	P-A
P-A P-A	Slide detector fence East of Tunnel No. 6, MP 546.70	P-5469
P-5470	Fire detector on trestle between Tunnels Nos. 7 and 8, MP 547.70	P-5481
P-5478	Fire detector on trestle between Tunnels Nos. 9 and 10, MP 547.60	P-5491
P-5490	Fire detector on Side Canyon Bridge, MP 549.10	P-5497
P-A P-A	Fire detector on Steep Canyon Bridge, MP 552.30	P-5529
P-5528	Slide detector on cinder fill ½ mile West of Fields, MP 553.60	P-A P-A

Eastward Signal	Protection	Westward Signal
5582	Slide detector, MP 559	PA PA
P-5628	Fire detector on Salt Creek Bridge, MP 563.20	P-A P-A
P-A P-A	Fire detector on Eagle Creek Bridge, MP 565.50	P-5655
P-5726 P-5714	Slide detector fence, MP 572.20	P-5725 P-5735
P-5828	Slide detector fence, MP 583.00	P-5839
P-A P-A	Slide detector fence, MP 586.90	P-5875
P-A P-A	Slide detector fence, MP 596.20	P-5973
P-6118	Collision detector underpass, MP 611.90	
P-6120	Slide detector fence, MP 612.50	P-6133
P-6134	Slide detector fence, MP 613.80	P-A P-A
P-A	Collision detector highway underpass, MP 621.00	P-6213 P-A P-A

In addition to making careful inspection of track where slide fences are located, the face of bluff above the track must be observed for indication of slide.

AUTOMATIC BLOCK SIGNAL SYSTEM

Between the following locations, trains moving in either direction will move by block signals whose indications will supersede the superiority of trains:

End of CTC, MP 427.5 and end of CTC, MP 429.8
End of CTC, MP 527.2 and end of CTC, MP 529.0
End of CTC, MP 647.6 and end of CTC, MP 652.0.

Klamath Falls: Trains stopped by Signal 4292, may proceed immediately at restricted speed.

Signal 4278 at derail GNRy Bieber line
Top unit........................to Cascade line
Bottom unit....................to Lake Ewauna line

Signal 4277 at derail from line crossing Lake Ewauna governs to GNRy Bieber line only.

Eugene: Whenever aspect displayed by Signal 6482, located just east of Van Buren Street crossing, requires train to stop, train should be stopped just west of Van Buren Street crossing.

If a preceding train is not clear of main track after stop has been made, train will remain clear of Van Buren Street crossing until preceding train has entered yard.

RULE 535. Spring Switches

Oakridge: Spring switches equipped with switch point indicators are located as follows:

1. East end Track No. 2
2. West end Track No. 2
3. West end Track No. 3

RULE 705. LETTER TYPE INDICATORS

Indicators located as follows:

Illum. Letter	On Signal	Approaching	Authorizes and requires movement as follows:
H....	Westward Absolute Signal	East Switch Diamond Lake	Westward trains must stop short of absolute signal on signal bridge, west end Diamond Lake and be governed by instructions on page 4, Rule 705, of these instructions.
H....	Westward "A" Signal at east end Lenz	Lenz	Westward trains must stop short of west end Lenz siding and member of crew must open hot bearing detector box located at clear point at west end Lenz siding and be governed by instructions on page 4, Rule 705 of these instructions.
W....	4887	Mazama	Wait until signal 4887 displays proceed indication.
H....	4902	Yamsay	Eastward trains must stop short of east end of Yamsay siding and member of crew must open hot bearing detector box located at clear point at east end Yamsay siding and be governed by instructions page 4, Rule 705 of these instructions.
W....	4872	Mazama	Wait until Signal 4872 displays proceed indication.

CENTRALIZED TRAFFIC CONTROL

Limits extend from MP 429.81, Klamath Falls to MP 527.23, Crescent Lake; MP 529.03, Crescent Lake to MP 647.62, Eugene.

Klamath Falls: Absolute signals governing movements on drill track will display proceed indication regardless of track occupancy between these signals unless indication is changed by train dispatcher. Switching movements may be made on drill track as long as signals governing such movements display proceed indication and Rule 775 will not apply. When these signals display stop indication, track between these signals must be cleared immediately.

Crescent Lake: Trains entering yard will use track indicated in illuminated indicator on absolute signals at entrance to yard.

Units for display of flashing white light located adjacent to leads at each end of yard. Trains departing from yard must not pull out onto leads without permission of train dispatcher or flashing white light is displayed.

Eugene: Dwarf light type absolute signal east end crossover MP 647.05 governs westward movements through crossover to main track only and will remain dark until electric locks are unlocked by train dispatcher.

Eugene: When westward absolute signal on running track governing movement to siding displays aspect per Rule 289, Rule 775 and second paragraph Rule 771 will not apply.

RULE 763. GNRy trains will display engine numbers in engine indicators instead of train numbers between Klamath Falls and Chemult.

GENERAL REGULATIONS

RULE 825. Instructions for setting hand brakes:

Klamath Falls and Klamath Falls Yard:

Passenger Trains..............Two brakes on west end.
Freight Trains..................Five brakes on west end.

Any employe releasing any of these brakes must set an equal number to replace them.

Staff brakes on freight trains must be set with the assistance of a brake club after train has stopped.

Klamath Falls: Hand brakes will not be set on passenger trains standing at the station unless engine is detached provided conductor has reached understanding that engineer will remain on engine.

Klamath Falls Yard: Hand brakes will not be set on freight trains if outgoing crew takes charge of train on arrival or if inbound crew is advised by yardmaster that engine is not to be detached.

RULE 826.

Springfield: Indicator lights located on mast at Georgia-Pacific Plywood chip track govern movement as follows:

Green: Track may be used for switching movements.
Red: Track must not be entered.
Not Lighted: Must be considered as displaying most restrictive indication and Georgia-Pacific Plywood supervisor must be contacted before cars are coupled to or moved.

Springfield: Clear Fir Products track No. 2 equipped with gate across track, which automatically opens building door for switching inside building. Trains must stop at stop sign located approximately 25 feet from gate. Indicator lights located on right side of gate indicate following:

Green: Gate Open.
Red: Gate Closed.
Not Lighted: Signals must be considered as displaying most restrictive indication and cars are not to be coupled to, or moved.

If door fails to open, emergency switch on left side of door will actuate automatic door.

After completion of switching, gate must be closed and locked, which will automatically close plant door.

If indicator lights are not lighted and if door fails to close, contact plant foreman immediately.

Eugene Yard: Indicator lights located on Tracks Nos. 30 and 32, govern movement on these tracks as follows:

Green: Tracks may be used for trains or switching movements.
Yellow: Tracks may be entered, switched and engines, cars or cabooses added or detached.
Red: Tracks may be entered, but cars on these tracks must not be coupled to or moved. Trains made up on these tracks must not depart until it has been ascertained indicator displays green aspect.
Not Lighted: Signals must be considered as displaying most restrictive indication and Icing Platform Foreman must be contacted for instructions before cars are coupled to or moved.

When indicator light at east end Track 30 displays "Red" aspect, engines moving eastward on this track must not pass fouling point until indicator light displays "Green" aspect.

RULE 827. Eastward freight and mixed trains using retaining valves and with less than three dynamic brakes in operation will stop at Frazier 10 minutes for heat radiation unless stop has previously been made at Cruzatte. When stop of 10 minutes has been made at either Frazier or Cruzatte, train may thereafter run not to exceed 18 miles before again stopping for wheel radiation.

Eastward freight and mixed trains with retaining valves in use and with three or more dynamic brakes in operation, will stop at Frazier 10 minutes for heat radiation unless stop has previously been made at Cruzatte. When stop of 10 minutes has been made at either Frazier or Cruzatte, train may thereafter run to Oakridge without stopping.

Train inspection must be made at heat radiation stops. Air Brake Rule 34 must be complied with.

Trains handling logs must stop and crew must inspect load and chains before entering yard at Klamath Falls.

RULE 842. Klamath Falls: Movements of GNRy trains and engines between end of CTC and junction switch of GNRy will be directed by yardmaster.

Westward trains must not pass absolute signal displaying "Proceed on Diverging Route" at east switch unless flashing white light is displayed on signal bridge at end of CTC.

Eugene Yard: Eastward trains, except trains consisting of passenger equipment, must not pass signal 6486 unless authorized by Yardmaster or by a proceed signal from yardman to enter yard at MP 6486 or to continue on main track to enter yard at MP 650.2.

Westward trains leaving departure yard and moving on main track will not pass Signal 6489 until proceed signal is received from yardman.

All identified trains arriving Eugene Yard, except SLE, do not exceed 7 MPH into receiving track to permit carmen to make inbound inspection.

RULE 872. Enginemen taking charge of engines at Eugene Terminal and Klamath Falls Terminal will consider engines as having been amply supplied and sanders operative.

AIR BRAKE RULES

RULE 2. When switch engine is used on yard tracks at east end of Klamath Falls, handling twenty-five cars or more, air brakes must be cut in and operative on not less than six cars.

RULE 17. Cascade Summit to Oakridge: Eastward passenger trains, with dynamic brakes operating, and not over 20 cars need not turn up retaining valves; if over 20 cars turn up one retaining valve for each 100 tons over 20 cars, on head end of train. Other eastward passenger trains will turn up retaining valves on all passenger-carrying equipment and on head-end cars in excess of three, stopping if necessary at Cascade Summit, to do so.

Retaining valves will be used on freight and mixed trains on descending grades as follows:

With no dynamic brake in operation one retaining valve for every 70 tons in train. When dynamic brake is in operation and tonnage of train exceeds 1200 tons oer four-axle unit, or 2200 tons per six-axle unit, one retaining valve for each 125 tons in train.

For operating convenience retaining valves may be turned up at Crescent Lake and turned down at Pryor or Lookout.

When dynamic brakes are in operation on TOFC trains and pressure maintaining system of braking is being used, retainers will not be required when car tonnage is less than 80 tons per operative brake.

If dynamic brakes are not in operation or pressure maintaining system of braking is not being used, one retaining valve will be turned up for each 60 tons in train or, if tons per operative brake exceed 60 tons, retaining valves must be turned up on all cars.

RULE 24-B. Crescent Lake and Eugene Yard: When outgoing crew takes charge of train on arrival and continuity of brake pipe is not disturbed, incoming engineer will apply train brakes when stopped. Outgoing engineer will release brakes and proceed without making rear end or road test.

RULE 25. Will apply as designated below, except when conditions are favorable for releasing air brakes (Rule 29) while running, and engineer after informing trainman test is to be made approaching station named, receives positive information following test that brakes did apply on caboose and brake pipe pressure is being restored:

Kirk: Westward when temperature is 32° or less.
Cascade Summit: Eastward when temperature is 32°or less.

RULE 33. Maximum tonnage per operative brake Cascade Summit to Oakridge is 70 tons, except 80 tons per operative brake may be handled providing one 4-axle unit of dynamic brake is in operation for each 1000 tons in train and train is operated under provisions of Air Brake Rule 19. Should conditions arise on descending grade which prohibit operation under the exception, train must be stopped immediately, all retaining valves turned up, and speed restricted to not more than 15 MPH.

Tons per operative brake on TOFC trains must not exceed 80 tons. Tonnage of engine behind the 20th axle of dynamic brake is not to be included with train tonnage in calculating tons per operative brake.

RULE 39. Running test must be made by passenger trains as follows:

Eastward trains. . . Just west of station sign Cascade Summit.

MISCELLANEOUS

1. Load limit (car and contents):

Klamath Falls-Eugene	315,000 lbs.
Mohawk Jct.-MP 649.40 (Marcola Br.)	240,000 lbs.
MP 649.40 (Marcola Br.)-Hyland	169,000 lbs.
Fall Creek Jct.-Fall Creek	251,000 lbs.

2. LOCATION OF STOCK YARDS

Station	Capacity in cars
Klamath Falls	10 (Water)
Chiloquin	20 (Water)

3.
LOCATION OF OVERHEAD AND SIDE STRUCTURES NOT STANDARD CLEARANCE ON MAIN TRACK AND SIDINGS

Mile Post	Location	Description	
537.80	East of Cascade Summit	Tunnel No. 3	Overhd & Side
544.30	East of Abernethy	Tunnel No. 4	Overhd & Side
545.20	East of Abernethy	Tunnel No. 5 & Rock Shed	Overhd & Side
546.50	East of Cruzatte	Tunnel No. 6	Overhd & Side
547.10	East of Cruzatte	Tunnel No. 7 & Snow Shed	Overhd & Side
547.70	East of Cruzatte	Tunnel No. 8	Overhd & Side
548.30	East of Cruzatte	Tunnel No. 9 & Snow Shed	Overhd & Side
548.60	East of Cruzatte	Tunnel No. 10 & Rock Shed	Overhd & Side
548.80	East of Cruzatte	Tunnel No. 11 & Rock Shed	Overhd & Side
549.30	East of Cruzatte	Tunnel No. 12 & Rock Shed	Overhd & Side
550.00	East of Cruzatte	Tunnel No. 13	Overhd & Side
551.80	East of Frazier	Tunnel No. 14 & Snow Shed	Overhd & Side
553.90	East of Frazier	Tunnel No. 15	Overhd & Side
556.00	East of Fields	Tunnel No. 16	Overhd & Side
557.10	East of Fields	Tunnel No. 17	Overhd & Side
557.80	East of Fields	Tunnel No. 18	Overhd & Side
558.60	East of Fields	Tunnel No. 19	Overhd & Side
560.90	East of Wicopee	Tunnel No. 20	Overhd & Side
565.48	East of Heather	Eagle Creek through Pl. Girder	Overhd & Side
572.10	East of McCredie Springs	Tunnel No. 21	Overhd & Side
581.80	East of Oakridge	Tunnel No. 22	Overhd & Side
584.50	East of Westfir	Tunnel No. 23	Overhd & Side
587.20	East of Lookout	Tunnel No. 24	Overhd & Side
590.00	East of Lookout	1st Crossing middle Will. River through truss	Overhd & Side
620.58	East of Springfield	Through girder Mill Creek	Side
649.50	East of Hendricks	McKenzie River Crossing	Overhd & Side

4. Only Engines listed may operate on tracks shown below:

Class of Engine	Restricted Tracks
No engines	Beyond engine restriction sign at following locations: Yamsay—Logging tracks. Oakridge—Outfit spur.

5. **Eugene:** Impaired clearance exists when chutes are in place on Eugene Sand & Gravel Co. spur.

6. **Westfir:** Impaired clearance shed No. 1 track Hines Lumber Co.

7. **Diamond Lake:** Employes are not allowed to ride on cars through chip loader on house track.

8. Diesel engine cooling water facilities available following locations:

Oakridge	¾-inch hose on reel on west end of old engineman's locker room.
McCredie Springs	1½-inch hose near old locomotive water tank.
Wicopee	1½-inch hose near former location of middle locomotive water tank and buildings.
Fields	1-inch hose near B&B camp.
Cruzatte	Near former location of station building.
Crescent Lake	1-inch hose in baggage room at station.
Chemult	Baggage Room.
Chiloquin	Baggage Room.

When necessary to use these facilities replace hose in proper place.

SPECIAL INSTRUCTIONS—CASCADE SUBDIVISION

SPEED RESTRICTIONS FOR TRAINS: Maximum speed of trains in territory shown below is subject to further restrictions applicable to engines in the train as shown in SPEED RESTRICTIONS FOR ENGINES appearing on page 7 and MAXIMUM SPEED PERMITTED WITH CERTAIN EQUIPMENT, appearing on page 6 of Special Instructions for All Subdivisions. Speed must be further reduced as prescribed by speed signs, except as specifically authorized by Special Instructions herein, or by timetable bulletin.

All trains must run carefully during and after heavy storms, particularly when the track is apt to be affected. When fog, storms or other conditions obscure track or signals, speed of trains must be so reduced as to permit strict observance of signals and INSURE SAFETY, REGARDLESS OF TIME.

EASTWARD	PSGR TRAINS	FRT & MIXED	WESTWARD	PSGR TRAINS	FRT & MIXED
MP MP Column:	1	2	MP MP Column:	1	2
KLAMATH FALLS TO EUGENE YARD:			EUGENE YARD TO KLAMATH FALLS:		
429.50 to 429.87...	50	40	649.70 to 648.95...	70	60
***429.87 to 433.91...	50	50	648.95 to 648.20...	70	55
433.91 to 438.65...	65	60	***648.20 to 646.90...	30	30
438.65 to 439.02...	60	60	646.90 to 644.60	40	40
439.02 to 444.93...	70	60	621.88 to 620.40...	40	40
444.93 to 445.09...	65	60	***620.40 to 617.19...	55	45
445.09 to 454.81...	70	60	617.19 to 616.70...	50	45
***454.81 to 467.67...	50	50	616.70 to 614.02...	55	55
467.67 to 508.70...	70	60	614.02 to 611.81...	50	50
			611.81 to 596.94...	60	60
			596.94 to 596.61...	55	55
			596.61 to 592.40...	60	60
508.70 to 523.51...	60	60	592.40 to 591.90...	55	55
523.51 to 528.60...	70	60	591.90 to 588.99...	60	60
528.60 to 533.12...	60	60	588.99 to 583.87...	50	50
533.12 to 537.31...	55	55	583.87 to 580.50...	55	55
537.31 to 553.50...	30	25	***580.50 to 554.00...	30	30
553.50 to 554.00...	25	25	554.00 to 553.50...	25	25
***554.00 to 580.50...	30	25	553.50 to 537.31...	30	30
580.50 to 583.87...	55	55	537.31 to 533.12...	55	55
583.87 to 588.99...	50	50	533.12 to 528.60...	60	60
588.99 to 591.90...	60	60	528.60 to 523.51...	70	60
591.90 to 592.40...	55	55	523.51 to 508.70...	60	60
592.40 to 596.61...	60	60			
596.61 to 596.94...	55	55	508.70 to 467.67...	70	60
596.94 to 611.81...	60	60	***467.67 to 454.81...	50	50
611.81 to 614.02...	50	50	454.81 to 445.09...	70	60
614.02 to 616.70...	55	55	445.09 to 444.93...	65	60
616.70 to 617.19...	50	45	444.93 to 439.02...	70	60
***617.19 to 620.40...	55	45	439.02 to 438.65...	60	60
620.40 to 621.88	40	40	438.65 to 433.91...	65	60
644.60 to 646.90...	40	40	***433.91 to 429.87...	50	50
***646.90 to 648.20...	30	30	429.87 to 429.50...	50	25
648.20 to 649.70...	70	60			
MOHAWK JUNCTION TO HYLAND:			HYLAND TO MOHAWK JUNCTION:		
646.59 to 647.21...	..	20	659.81 to 647.21...	..	25
647.21 to 659.81...	..	25	647.21 to 646.59...	..	20
FALL CREEK JCT. TO MP 608.22........	..	25	MP 608.22 TO FALL CREEK JCT...............	..	25

***PUC Order.

TOFC trains may operate at Column 1 speeds, not to exceed 60 MPH from Crescent Lake to Eugene, provided tons per operative brake do not exceed 80 tons.

Freight and mixed trains containing no restricted cars are authorized to operate at Column 1 speeds not exceeding 60 MPH provided trains do not exceed:

Number of Cars	Tons Per Operative Brake
70	70
75	69
80	68
85	67
90	66
95	65
100	64
105	63
110	62
115	61
120	60

SPEED RESTRICTIONS FOR OTHER THAN MAIN TRACKS	With Caution Not Exceeding MPH
Through sidings, yard and other tracks, wyes, balloon tracks, crossovers and turnouts, except:	15
Through turnouts and sidings at Wocus, Algoma, Modoc Point, Chiloquin, Kirk, Fuego, Lenz, Diamond Lake, Chemult, Mowich, Umli, Cascade Summit, Abernethy, Cruzatte, Frazier, Fields, Wicopee, Heather, McCredie Springs, Pryor and Oakridge.........	25
Through turnouts and sidings at Calimus, Yamsay, Lookout, Hampton, Crale, Minnow, Dexter, Dougren, Natron, Judkins.........	20
Through turnouts on other than sidings.........	10
On branches.........	10

SPECIAL INSTRUCTIONS—CASCADE SUBDIVISION

RATING OF ENGINES—In Units of 2000 Lbs. (Tons)

	NOMINAL CLASS	ENGINE NUMBERS	Cascade Summit Eugene	Eugene to Dougren	Dougren to Hampton	Hampton to Oakridge	Oakridge to Cascade Summit	Cascade Summit to Klamath Falls	Klamath Falls to Cascade Summit	Mohawk Jct. to Hyland	Hyland to Mohawk Jct.
1	EF415A	352, 359-379, 6172-6189, 6191-6193, 6206-6382, 6384-6385, 6387, 6392, 6394-6440, 6443, 6463-6470	3175	2500	1825	1625	1150	3175	1825	....	....
2	EP415A	354-357, 6190, 6203, 6383, 6386, 6388-6391, 6393, 6441-6442, 6444-6461	2525	2000	1425	1250	700	2500	1100	....	....
3	EF415B	535-539, 547-553, 8043-8090, 8099-8101, 8104, 8110, 8112, 8115-8117, 8119-8121, 8123-8124, 8140-8284, 8292, 8295, 8299-8300, 8305	3175	2500	1825	1625	1150	3175	1825	....	....
4	EP415B	540-545, 8091-8095, 8103, 8106-8109, 8111, 8114, 8118, 8122, 8126-8139, 8290-8291, 8293-8294, 8296-8298, 8301-8303	2525	2000	1425	1250	700	2500	1100	....	....
5	ES406, AS407	1000-1032	1375	1050	775	675	375	1375	775	....	....
6	ES408 ES408B	1100-1128, 1150-1153	2800	2200	1575	1400	800	....	....	....	....
7	ES409	1170-1179	3025	2400	1700	1500	825	....	....	....	....
8	AS409	1200-1257	2425	1900	1350	1200	675	....	....	....	....
9	AS409	1270-1281	3275	2600	1900	1675	925	....	....	....	....
10	AS410	1703-1720, 1766-1781, 1792-1845	2075	2050	1175	1050	575	2075	1175	....	....
11	BS412	2100-2120, 2126-2157	2900	2050	1600	1325	725	2675	1500	....	....
12	FS412	2350-2394	2525	2000	1425	1275	700	....	....	....	....
13	ES615 EF618	2700-2742, 3800-3966	5475	3600	3050	2700	1500	5475	3050	....	....
14	AS616	2871-2885	5475	3600	3050	2700	1500	5475	3050	....	....
15	AS618	2950-2970	....	....	....	....	....	6175	3525	....	....
16	EP418, EF418	3002-3003, 3008-3009, 3441-3550, 3571-3640, 3663-3727	3400	2711	1950	1750	1000	3400	1950	....	....
17	EF420	4050-4087	5200	8075	3025	2875	1450	5325	2500	....	....
18	BS615 BS615B BS616 BS616B	4900-4902, 5208-5248, 5254-5278	4000	3600	2450	2200	1450	4000	2475	....	....
19	BS616 BS616B	4903-4905, 5252	6525	4050	3600	3225	1450	....	....	....	....
20	GS407	5100-5120	1725	1375	975	875	475	....	....	①850	①1150
21	EP620A&B EP623A EP624A	6000-6004, 6017-6018, 6046-6054, 5900-5917	2850	2250	1600	1400	775	2850	1600	....	....
22	AP620A	6026-6045	2875	2250	1600	1425	775	2875	1625	....	....
23	EF425	6520-6576	5150	8000	2950	2800	1400	5375	2500	....	....
24	GF425	6700-6767	5475	8000	3150	3000	1500	5825	2650	....	....
25	EF625	6900-6928	6650	10000	4000	3775	1900	6875	3275	....	....
26	AF628	7100-7128	8675	10000	4500	4000	2050	8525	3600	....	....
27	KF636 KF636A	9100-9120	6450	5000	3625	3225	1825	6450	3625	....	....
28	AF640	9150-9152	8000	12050	4550	4450	2225	8100	3950	....	....

①Not more than 2 units in multiple may be operated over McKenzie River bridge.

ON BRANCH LINES, UNLESS AUTHORIZED BY SUPREINTENDENT, ENGINES WILL NOT BE PERMITTED TO OPERATE IN THOSE TERRITORIES WHERE NO RATING IS SHOWN IN ENGINE RATING TABLE.

RULE M. 7200 volt power line on signal pole line, Black Butte to Mt. Hebron. If found broken or down, extreme caution must be used and prompt report made from first available means of communications.

RULE 14(k). Will not apply in CTC between Dunsmuir Yard and Klamath Falls.

RULES 21-A, 21-B, 21-C: Extra trains operating between Dunsmuir Yard and Klamath Falls are not required to display train indicators or white lights, except trains handling loads of excess dimension covered by train-order will display train indicators which need not be removed at destination.

RULE 81. Two main tracks between MP 319.61, Dunsmuir Yard, and MP 322.57, Dunsmuir. Track nearest depot designated Track No. 1 and track nearest yard designated Track No. 2.

RULE 82-A. Dunsmuir Yard: Trains originating will obtain clearance issued at Dunsmuir and delivered by tube to Yard Office, Dunsmuir Yard. Clearance and train orders for first-class trains will be delivered in red container; and for extra trains in yellow container.

Regular trains originating at Gazelle on Siskiyou subdivision will be authorized by receipt of clearance at Dunsmuir or Dunsmuir Yard to apply at Gazelle and may display indicators accordingly between Dunsmuir Yard and Gazelle.

Klamath Falls: Trains originating Klamath Falls will obtain clearance issued at Klamath Falls Yard and delivered by tube to Crew Dispatchers' Office, Klamath Falls. Clearance and train orders for first-class trains will be delivered in red container and for extra trains in yellow container.

RULE 83-A. At the following stations only the trains indicated will register:

Klamath Falls Yard....Trains originating and terminating,
Klamath Falls.........First Class and TOFC trains.

RULE 93. Yard limits in which the provisions of Rule 93 will apply, except within CTC limits, are established at the following points:

West MP		East MP
427.50	Klamath Falls..................................	429.81
551.80	" (Modoc Sub.)...........................	

RULE 99-A. Dunsmuir: Flag protection is not required on No. 1 or No. 2 Main Tracks between eastward absolute signal at west end Dunsmuir Yard and westward absolute signal at east end Dunsmuir.

Klamath Falls: Flag protection, except on trains carrying passengers, is not required between eastward absolute signal at MP 425.8 and MP 432.66.

RULE 104. The normal position of rigid switches at junctions is as follows:

Mount Shasta...McCRRR main track, for interchange track,
Klamath Falls..GNRy main track, for SP main track,
Klamath Falls..Alturas line, from track No. 17 for Alturas line,
Klamath Falls..OC&ERy main track, for yard track,

RULE 291. Dunsmuir Yard: Units for display of flashing yellow installed on mast of westward absolute signals at west end track Nos. 1 and 2, MP 319.61.

Units for display of flashing yellow also installed on absolute signals at east and west end Dunsmuir Yard which govern switching movements from yard tracks onto No. 2 main track only and authorize movements to pass absolute signals without stopping.

RULE 306. The following block signals, equipped with triangular number plate displaying the letter "P," have included in their control limits some special protective device:

Eastward Signal	Protection	Westward Signal
P-3234	Slide detector fence, between MP 323.61 and MP 323.67..........................	P-3243
P-A P-A	Slide detector fence, MP 326.86 and MP 326.92..........................	P-3273
P-3274	Slide detector fence, MP 327.5..................	P-3281
P-3290	Slide detector fence MP 329.50..................	P-3301
P-A	Collision detector, bridge 360.82..................	P-A
P-4106	Collision detector, bridge 410.57..................	P-4125
P-4258	Spring switch west end of lead, Texum..........	

AUTOMATIC BLOCK SIGNAL SYSTEM

Klamath Falls: Trains stopped by Signal 4292 may proceed immediately at restricted speed.

Signal 4278 at derail GNRy Bieber line, top unit governs from Bieber line to Cascade line main track; lower unit governs from Bieber line to GNRy line crossing Lake Ewauna.

Signal 4277 at derail from line crossing Lake Ewauna governs to GNRy Bieber line only.

Between the following locations, trains moving in either direction will move by block signals whose indicators will supercede the superiority of trains:

End of CTC, MP 427.5 and End of CTC, MP 429.8.

RULE 535. SPRING SWITCHES

Spring switches equipped with facing point locks are located as follows:

Location		Normal Position
Texum............	West end of lead	Main track

INTERLOCKING

Klamath Falls Yard: Limits extend from westward interlocking signal, opposite MP 427, 225 feet westward to eastward interlocking signal at MP 553.16 on Alturas line and 225 feet westward to eastward interlocking signal at MP 426.95 in Texum lead.

RULE 705. LETTER TYPE INDICATORS.

Illum. Letter	On Signal Approaching	Authorizes and requires movement as follows:
H.....	On Eastward A signal west end Mt. Hebron	Eastward trains must stop short of east end Mt. Hebron siding and member of crew open hot bearing detector box located at clear point at the east end Mt. Hebron siding and be governed by instructions on page 4, Rule 705 of these instructions.
W.....	3902 Mt. Hebron	Wait until Signal 3902 display proceed indication.

CENTRALIZED TRAFFIC CONTROL

Centralized Traffic Control on both main tracks between MP 319.61, Dunsmuir Yard, and MP 322.57, Dunsmuir, and between MP 322.57 and MP 427.5.

Black Butte: Eastward absolute signal on Main Track just west of crossover governs as follows:

Top Unit.. Main track
Middle Unit..................Crossover to Siskiyou Line
Bottom Unit.................Crossover to Controlled Siding

Units for display of flashing white light located on right and left of signal mast on siding west of crossover. When flashing, indicates signal is cleared for movements as follows:

Right of Mast	On Controlled Siding
Left of Mast	From "Siskiyou Siding"

When absolute signals on siding display "lunar" aspect per Rule 289, Rule 775 and second paragraph of Rule 771 will not apply.

Dunsmuir Yard: Three-unit westward absolute signal No. 1 Track, MP 321.35, governs movements as follows:

Top Unit	No. 1 Track
Middle Unit	No. 2 Track
Bottom Unit	Drill Track

Absolute signal on Drill Track at west end crossover between Drill Track and No. 2 track governs movements through crossover to No. 2 Main Track or No. 1 Main Track only and will remain dark until crossover switch is reversed.

When flashing red light mounted on pole at MP 320 is illuminated, all switching moves must clear No. 2 Main Track.

GENERAL REGULATIONS

RULE 825. Instructions for setting hand brakes:

Dunsmuir and Dunsmuir Yard:

Passenger Trains	Two brakes on east end, Three brakes on west end.
Freight trains or cuts of 25 cars or less	Ten brakes on west end.
Freight trains or cuts of 26 to 50 cars	Ten brakes on west end, Five brakes on east end.
Freight trains or cuts of over 50 cars	Ten brakes on west end, Ten brakes on east end.

Klamath Falls and Klamath Falls Yard:

Passenger Trains	Two brakes on west end,
Freight trains	Five brakes on west end.

Any employe releasing any of these brakes must set an equal number to replace them.

Staff brakes on freight trains must be set with the assistance of a brake club after train has stopped.

When it is necessary to double over incoming freight trains at Dunsmuir Yard, trainmen will secure that portion of train not doubled over, and yardmen will secure that portion of train doubled over.

Dunsmuir Yard and Klamath Falls Yard: Hand brakes will not be set on freight trains if outgoing crew takes charge of train on arrival or if inbound crew is advised by yardmaster that engine is not to be detached.

Dunsmuir and Klamath Falls: Hand brakes will not be set on passenger trains standing at the station unless engine is detached provided conductor has reached understanding that engineer will remain on engine.

Portable rail skids are located at: Small, Mott, Azalea, Mount Shasta and Upton at west end of siding and at Black Butte east of east wye switch.

Be governed by instructions page 5, Rule 825 of these instructions.

RULE 827. Freight trains using retaining valves on descending grade will stop as indicated, at the following stations for heat radiation:

Azalea	5 minutes
Andesite	10 minutes

Freight trains with three or more dynamic brakes in operation need not stop at Andesite or Azalea for heat radiation if there is no indication of wheels overheating and in the judgment of conductor and engineer it is safe to proceed.

Engines without dynamic brake in operation running light on descending grade must stop at the above stations a sufficient length of time to permit heat radiation.

RULE 842. Dunsmuir Yard: Trains entering or leaving yard tracks must receive proceed signal from yardman except when movement is governed by diverging route signal.

Klamath Falls Yard: Eastward trains except first-class must not pass crossover located 2050 feet east of signal 4280 unless proceed signal is received from yardman.

Klamath Falls: Westward trains must not pass absolute signal displaying "Proceed on Diverging Route" at east switch unless flashing white light is displayed in signal on signal bridge at end of CTC.

RULE 872. Enginemen taking charge of engines at Dunsmuir Terminal and Klamath Falls Terminal will consider engines as having been amply supplied and sanders operative.

AIR BRAKE RULES

RULE 2. Klamath Falls Yard: Switch engine handling 25 cars or more at east end of yard must have air cut in on not less than 6 cars.

Dunsmuir Yard: Switch engines must have air brakes cut in on cars as follows:

TONS	BRAKES
750 to 1250	5
1250 to 2000	10
2000 and over	15

RULE 17. Retaining valves will be used on descending grades as follows:

FREIGHT AND MIXED TRAINS

Grass Lake to Dunsmuir Yard: With no dynamic brakes in operation, one retaining valve for each 70-tons in train. When dynamic brake is in operation and tonnage of train exceed 900 tons per 4-axle unit or 1600-tons per 6-axle unit of dynamic brake, one retaining valve for each 150-tons in train. When dynamic brake is in operation and pressure maintaining system of braking is being used and tonnage of train exceeds 1375-tons per 4-axle unit or 1825-tons per 6-axle unit of dynamic brake, one retaining valve for each 150-tons in train.

PASSENGER TRAINS

All retaining valves must be turned up when no dynamic brake is in operation, between Azalea and east switch at Dunsmuir. When dynamic brake is in operation between Azalea and east switch at Dunsmuir engineer will notify trainmen if necessary to use retaining valves.

FREIGHT TRAINS

RULE 22. Trainmen must not couple air hoses on outgoing freight trains at Dunsmuir Yard until they have been notified by the yardmaster or his representative that the switching has been completed. After trainmen have been so notified, yardmen must not perform switching on, or couple other cars or engines to the train without instructions from the yardmaster or his representative, who must notify trainmen before the intended move is made.

RULE 24-B. Dunsmuir Yard and Dunsmuir: When continuity of brake pipe is not disturbed, incoming engineer will apply train brakes when stopped. Outgoing engineer will release brakes and proceed without making rear end or road test.

RULE 25. Will apply as designated below, except when conditions are favorable for releasing air brakes (Rule 29) while running, and engineer after informing trainman test is to be made approaching stations named, receives positive information following test that brakes did apply on caboose and brake pipe pressure is being restored:

Grass Lake	Westward
Black Butte	To and from Siskiyou Line

RULE 33. Maximum tonnage per operative brake is as follows:

Azalea to Dunsmuir Yard	80 tons

PASSENGER TRAINS

RULE 36. Trainmen must not couple or uncouple air hoses or steam conduits on passenger trains at Dunsmuir until they have been notified by the yardmaster or his representative that switching has been completed. After trainmen have been so notified, yardmen must not perform switching on, or couple other cars or engines to the train without instructions from the yardmaster or his representative who must notify trainmen before the intended move is made.

RULE 39. Running test must be made on passenger trains as follows:

Grass Lake: Westward trains.
Black Butte: Eastward trains via Siskiyou line.

RULE 60. On westward freight trains using dynamic brake with 80- or 85-foot trailer-flat cars entrained within first 20 cars from head end, dynamic braking force must be reduced to one-half of maximum, and, if necessary, automatic brakes applied sufficiently so that speed will not exceed 20 MPH 500 feet before reaching curve at MP 328.17 and until train has passed MP 327.87.

MISCELLANEOUS

1. Not more than three units will be placed behind 80- or 85-foot trailer-flat cars between Dunsmuir Yard and Black Butte.

2. Engines listed are not permitted to operate on tracks shown below:

Class of Engine	Restricted tracks
All engines	Dorris—Beyond engine restriction sign Ass'd Lbr. Co. spur.

At Mount Shasta, switching movements to or from McCRRR tracks Nos. 1, 2, 3 or 4, when made through the connection from siding to McCRRR main track, may be made without flag protection after ascertaining that there are no movements being made on McCRRR west of State highway. Movements on west leg of wye McCRRR track must not be made without proper flag protection.

3. Load limit (car and contents):

Dunsmuir-Klamath Falls	263.000 pounds

Unless authorized by Superintendent, heavier loads must not be handled.

4. LOCATION OF STOCK YARDS

Station	Capacity in cars
Dorris	4 (Water)
Worden	6
Klamath Falls	95 (Water)

5.

LOCATION OF OVERHEAD AND SIDE STRUCTURES NOT STANDARD CLEARANCE ON MAIN TRACK AND SIDINGS

MP	Location		Description
325.00	Dunsmuir	Sacramento River 16th crossing	Overhead and side
407.80	Dorris	Tunnel No. 17	Overhead and side
410.00	Dorris	Tunnel No. 18	Overhead and side

6. SPEED RESTRICTIONS FOR TRAINS: Maximum speed of trains in territory shown below is subject to further restrictions applicable to engines in the train as shown in SPEED RESTRICTIONS FOR ENGINES appearing on page 7 and MAXIMUM SPEED PERMITTED WITH CERTAIN EQUIPMENT, appearing on page 6 of Special Instructions for All Subdivisions. Speed must be further reduced as prescribed by speed signs, except as specifically authorized by Special Instructions herein, or by timetable bulletin.

All trains must run carefully during and after heavy storms, particularly when the track is apt to be affected. When fog, storms or other conditions obscure track or signals, speed of trains must be so reduced as to permit strict observance of signals and INSURE SAFETY, REGARDLESS OF TIME.

EASTWARD	PSGR TRAINS	FRT & MIXED	WESTWARD	PSGR TRAINS	FRT & MIXED
MP MP Column:	1	2	MP MP Column:	1	2
DUNSMUIR YARD TO KLAMATH FALLS:			KLAMATH FALLS TO DUNSMUIR YARD:		
**321.20 to 322.57			429.50 to 427.57...	50	25
Track No. 2....	20	20	427.57 to 426.89...	50	40
**321.20 to 321.90			426.89 to 412.40...	70	60
Track No.1....	20	20	412.40 to 408.46...	50	50
321.90 to 322.57			408.46 to 407.77...	45	45
Track No. 1....	20	20	407.77 to 390.10...	70	60
322.57 to 327.87...	25	25	390.10 to 387.70...	65	60
327.87 to 328.17...	20	20	387.70 to 379.12...	50	50
328.17 to 332.62...	25	25	379.12 to 373.76...	70	60
332.62 to 333.48...	30	30	373.76 to 369.45...	50	50
333.48 to 335.64...	45	45	369.45 to 363.71...	50	50
335.64 to 337.87...	45	45			
337.87 to 343.94...	50	50			
343.94 to 350.79...	50	50	363.71 to 355.50...	45	45
350.79 to 354.97...	40	40	355.50 to 354.97...	35	35
354.97 to 355.50...	35	35	354.97 to 350.79...	40	40
355.50 to 363.71...	45	45	350.79 to 343.94...	50	50
363.71 to 373.76...	50	50	343.94 to 337.87...	50	50
373.76 to 379.12...	70	60	337.87 to 335.64...	45	45
379.12 to 387.70...	50	50	335.64 to 333.48...	45	45
387.70 to 390.10...	65	60	333.48 to 332.62...	30	30
390.10 to 407.77...	70	60	332.62 to 328.17...	25	25
407.77 to 408.46...	45	45	328.17 to 327.87...	20	20
408.46 to 412.40...	50	50	327.87 to 322.57...	25	25
412.40 to 426.89...	70	60	322.57 to 321.90		
426.89 to 429.50...	50	40	Track No. 1....	20	20
			**321.90 to 321.20		
			Track No. 1....	20	20
			**322.57 to 321.20		
			Track No. 2....	20	20

**ICC Regulation.

Freight trains without dynamic brake in operation must not exceed 20 MPH on descending grade between Mount Shasta and Dunsmuir Yard.

SPEED RESTRICTIONS FOR OTHER THAN MAIN TRACKS	With Caution Not Exceeding MPH
Through sidings, yard and other tracks, wyes, balloon tracks, crossovers and turnouts, except:	15
Through sidings and turnouts at Mott, Azalea, Upton	25
Through turnouts on other than sidings	10
On branches	10

SPECIAL INSTRUCTIONS—BLACK BUTTE SUBDIVISION

RATING OF ENGINES—In Units of 2000 Lbs. (Tons)

	NOMINAL CLASS	ENGINE NUMBERS	Dunsmuir to Black Butte	Black Butte to Grass Lake	Grass Lake to Klamath Falls Klamath Falls to Mt. Hebron	Mt. Hebron to Dunsmuir
1	EF415A	352, 359-379, 6172-6189, 6191-6193, 6206-6382, 6384-6385, 6387, 6392, 6394-6440, 6443, 6463-6470	950	1175	3175	1600
2	EP415A	354-357, 6190, 6203, 6383, 6386, 6388-6391, 6393, 6441-6442, 6444-6461	625	1025	2875	1400
3	EF415B	535-539, 547-553, 8043-8090, 8099-8101, 8104, 8110, 8112, 8115-8117, 8119-8121, 8123-8124, 8140-8284, 8292, 8295, 8299-8300, 8305	950	1175	3175	1600
4	EP415B	540-545, 8091-8095, 8103, 8106-8109, 8111, 8114, 8118, 8122, 8126-8139, 8290-8291, 8293-8294, 8296-8298, 8301-8303	625	1025	2875	1400
5	ES406 AS407	1000-1032	285	475	1375	660
6	AS410	1703-1720, 1766-1781, 1792-1845	455	735	2075	1025
7	BS412	2100-2120,2126-2157	590	950	2675	1300
8	ES615, EF618	2700-2742, 3800-3966	1200	1900	5475	2600
9	AS418	2900-2936	1475	2275	6175	3075
10	AS618	2950-2970	1300	2050	6050	2800
11	EP418, EF418	3000-3001, 3421-3422	1025	1625	5075	2225
12	EP418, EF418	3002-3003, 3008-3009, 3441-3550, 3571-3640, 3663-3727	825	1275	3400	1700
13	AF420	4000-4009	1100	1725	5625	2350
14	EF420	4050-4087	1175	1800	5800	2475
15	BS615 BS615B BS616 BS616B	4900-4902, 5208-5248, 5254-5278	975	1550	4000	2150
16	BS616 BS616B	4903-4905, 5252	1475			
17	EF423	5010-5017	1025	1650	5675	2225
18	EP620A & B EP623 EP624A	6000-6004, 6017-6018, 6046-6054, 5900-5917	600	1000	2850	1375
19	AP620A	6026-6045	625	1025	2875	1400
20	EF425	6520-6576	1150	1775	6550	2425
21	GF425	6700-6767	1200	1900	7275	2600
22	EF625	6900-6928	1550	2400	8000	3275
23	AF628	7100-7128	1650	2500	8675	3600
24	KF636 KF636A	9100-9120	1500	2325	6450	3150
25	AF640	9150-9152	1825	2800	9850	3825
26	GF850	9550-9552	2575	4025	13900	5475

ON BRANCH LINES, UNLESS AUTHORIZED BY SUPERINTENDENT, ENGINES WILL NOT BE PERMITTED TO OPERATE IN THOSE TERRITORIES WHERE NO RATING IS SHOWN IN ENGINE RATING TABLE.

RULE 82-A. Trains to Siskiyou Subdivision at Springfield Jct. must obtain clearance at Eugene Yard or Springfield, OK'd by Chief Train Dispatcher.

Regular trains originating at Gazelle will be authorized by receipt of clearance at Dunsmuir or Dunsmuir Yard to apply at Gazelle and may display indicators accordingly between Dunsmuir Yard and Gazelle.

RULE 83. Eastward trains may identify Westward trains at Black Butte to apply at End of CTC, Gazelle.

RULE 83-A. At following stations only the trains indicated will register:

Springfield Jct.	Only trains instructed by train order.
Medford	All Trains.
Cottage Grove	Trains Originating.
Gazelle	Only trains instructed by train order.

RULE 83-B. At open train-order offices trains may register by ticket as follows:

Medford	All Trains.
Grants Pass	All Trains.

RULE 93. Yard limits in which the provisions of Rule 93, except within CTC, will apply are established at the following stations:

West MP		East MP
360.80	Gazelle	362.07
374.66	Montague	376.34
392.26	Hornbrook	394.01
400.46	Hilt	402.98
426.92	Ashland	430.79
436.55	Medford	451.00
"	(White City Branch)	End of track
471.00	Grants Pass	474.57
506.64	Glendale	509.11
541.50	Riddle	546.00
548.00	Myrtle Creek	551.00
559.00	Dillard	564.50
571.03	Roseburg	574.56
584.98	Oakland	589.86
607.00	Drain	610.66
623.75	Cottage Grove	627.15
643.00	Eugene	
"	(Brooklyn Subdivision)	652.00
	(Coos Bay Subdivision)	652.29

RULE 99-C. Will apply between Gazelle and Springfield Jct.

RULE 103-A:

Drain: When moving over former Pacific Highway crossing flag protection must be provided for highway traffic.

Rogue River: Eastward movements on siding over Depot Street crossing must stop within 65 feet of crossing, wait 20 seconds for crossing protection to operate before movement is made onto crossing.

Ashland: Cars or engines must not be left standing within control circuits of automatic warning device at Oak Street crossing. Movements stopped within the limits of these control circuits must not enter crossing until it has been ascertained that automatic warning device is operating.

Sutherlin: Bells on automatic warning device at Central Avenue crossing are equipped with cut-out device so that Bells will stop ringing after an interval of one minute and ten seconds. Movements occupying control circuit at this crossing more than one minute and ten seconds must not enter crossing until it has been ascertained that bells are ringing or that crossing is clear of vehicular traffic.

RULE 104. The normal position of rigid switches at junction points is as follows:

Tolo	White City Branch, for siding.
Montague	YWRy main track, for house track.

Derails on main track:

White City	100 feet west of west switch of interchange track.
Ashland	210 feet west of east switch.

RULE 105. Following tracks are designated for use as sidings:

Medford: Siding extends from MP 441.4 to MP 442.1.

Kane: Siding extends from Signals 4396-4397 to Signals 4406-4407.

Siskiyou: When a westward train is holding main track to meet an eastward train and switch is open for train to enter siding, conductor of train holding main track will arrange to protect the eastward train against light engines or other trains occupying siding, and will give the eastward train sufficient room to avoid stopping engines in tunnel.

RULE 221. Medford is a closed train order office between 12:01 AM and 8:01 AM. Sunday.

Weed is a train order office for eastward trains only.

RULE 306. The following block signals equipped with triangular plate displaying letter "P" have included in their control limits some special protective device:

Eastward Signal	Protection	Westward Signal
P-3500	Collision detector, bridge 351.73	P-3595
P-3726	Collision detector, bridge 373.54	P-3741
P-4112	Slide detector at west end—tunnel 13, Siskiyou	P-4119
P-6418	Collision detector, highway underpass, MP 642.30	P-6429

AUTOMATIC BLOCK SIGNAL SYSTEM

Between the following locations, trains moving in either direction will move by block signals whose indications will supersede the superiority of trains.

End of CTC, MP 621.75 and fouling point, west leg wye switch Springfield Jct.

Siskiyou: When Signal 4112 west of Siskiyou displays proceed on diverging route eastward trains are authorized to enter siding at Siskiyou.

Ashland: Eastward trains must not pass signal 4284 and Westward trains must not pass signal 4297 unless authorized by yardmaster or by a proceed signal from yardman. When so authorized, trains may pass these signals without stopping, with caution.

Roseburg: Except between 6:00 AM and 9:00 AM and between 5:00 PM and 10:00 PM and on Sunday between 6:00 AM and 10:00 PM, westward trains must not pass signal 5729 unless flashing white light is displayed on signal mast or proceed signal is received from yardman.

CENTRALIZED TRAFFIC CONTROL

Limits extend from MP 345.2, Black Butte to MP 360.8, Gazelle.

GENERAL REGULATIONS

RULE 825. Instructions for setting hand brakes:

Ashland:

Passenger trains	Two brakes on east end.
Freight trains or cuts of cars	Five brakes on east end.

Any employe releasing any of these brakes must set an equal number to replace them.

Staff brakes on freight trains must be set with the assistance of a brake club after train has stopped.

RULE 825 (Cont'd).

Portable rail skid located at:
Siskiyou............East end of siding.

Be governed by instruction page 5, Rule 825 of these instructions.

RULE 826. Medford: Indicator lights located on side of building at Timber Products Co. track P-Vine No. 2 and at Boise Cascade Corp., loading shed track No. 2, govern movements as follows:

Green: Track may be used for switching
Red: Track may be entered but cars located beyond red lights must not be coupled to, or moved until loader operator contacted.
Not Lighted: Must be considered as displaying most restrictive indications.

RULE 827. Freight trains using retaining valves and light engines without dynamic brake on descending grade will stop as indicated, at the following stations for heat radiation:

MP 419	10 minutes
Cole	10 minutes

Freight trains, except those using retaining valves as required on trains without dynamic brakes in operation, need not stop at Hilt for heat radiation if there is no evidence of wheels overheating and in the judgment of conductor and engineer it is safe to proceed.

RULE 872. Enginemen taking charge of engines at Dunsmuir Terminal and Ashland will consider engines as having been amply supplied and sanders operative.

AIR BRAKE RULES

RULE 2. When switch engine is used in Ashland yard limits air brakes will be cut in on cars as follows:

TONS	BRAKES
750 to 1250	5
1250 to 2000	10
2000 and over	15

RULE 17. Retaining valves will be used on freight and mixed trains on descending grades as follows:

FREIGHT TRAINS

Glendale-Grants Pass, both directions: With no dynamic brake in operation or when dynamic brake in operation and tonnage exceeds 1500 tons per six axle unit or 1200 tons per four axle unit of dynamic brake, ten retaining valves on head end of train.

Oakland and Divide, both directions: With no dynamic brake in operation or when dynamic brake in operation and tonnage exceeds 2100 tons per six axle unit or 1600 tons per four axle unit of dynamic brake, ten retaining valves on head end of train.

Hornbrook and Ashland, both directions: With no dynamic brake in operation, all retaining valves. When dynamic brake in operation and tonnage exceeds 275 tons per four axle unit or 800 tons per six axle unit of dynamic brake, one retaining valve for each 100 tons in train. When dynamic brake is in operation and pressure maintaining system of braking is being used and tonnage of train exceeds 600 tons per four axle unit or 1200 tons per six axle unit of dynamic brake, one retaining valve for each 100 tons in train. On loaded cars, retaining valves must be turned to high pressure position.

Black Butte and MP 353, Montague and Hornbrook: With no dynamic brake in operation, one retaining valve for each 70 tons in train. When dynamic brake is in operation and tonnage of train exceeds 900 tons per four axle unit or 1600 tons per six axle unit of dynamic brake, one retaining valve for each 150 tons in train. When dynamic brake is in operation and pressure maintaining system of braking is being used and tonnage of train exceeds 1375 tons per four axle unit or 1825 tons per six axle unit of dynamic brake, one retaining valve for each 150 tons in train.

PASSENGER TRAINS

All retaining valves must be turned up between Hornbrook and Ashland and, when no dynamic brake is in operation, between Black Butte and MP 353.

When dynamic brake is in operation between Black Butte and MP 353, engineer will notify trainmen if necessary to use retaining valves.

RULE 22. Trainmen must not couple air hoses on outgoing freight trains at Roseburg until they have been notified by Foot Board Yardmaster or his representative that switching has been completed. After trainmen have been so notified, yardmen must not perform switching on, nor couple other cars or engines to the train without instructions from the Foot Board Yardmaster or his representative who must notify trainmen before intended move is made.

RULE 24-B. Roseburg: When outgoing crew takes charge of train on arrival and continuity of brake pipe is not disturbed, incoming engineer will appy train brakes when stopped. Outgoing engineer will release brakes and proceed without making rear end or road test.

RULE 25. Will apply at Siskiyou except when engineer receives positive information from trainman that air gage in caboose shows an increase in brake pipe pressure after leaving MP-422 westward, or after leaving Hilt eastward.

Will apply as designated below, except when conditions are favorable for releasing air brakes (Rule 29) while running, and engineer after informing trainman test is to be made approaching stations named, receives positive information following test that brakes did apply on caboose and brake pipe pressure is being restored:

Black Butte: To and from Siskiyou Line.
Glendale: Westward when temperature is 32° or less.

FREIGHT TRAINS

RULE 33. Gross tonnage on any freight train must not exceed the tons per operative brake between the stations shown:

Grants Pass and Glendale	70 tons
Black Butte and Ashland	80 tons

PASSENGER TRAINS

RULE 38. Immediately prior to leaving Siskiyou test must be made to determine that brakes on rear car apply and release.

RULE 39. Running test must be made as follows:

Black Butte: Eastward trains via Siskiyou Line.
Siskiyou: Eastward and Westward trains.

MISCELLANEOUS

1. Only engines listed may operate on tracks shown below:

Class of Engines	Restricted Tracks
No engines	Medford — Crossover between tracks Nos. 3 and 4, Government Yard.
" "	Riddle—On unloading pit track Mining & Minerals Mfg. Co.
No engines	Ashland—Beyond restriction sign Bagley Canning spur.
No engines	Grants Pass—Beyond restriction sign 100 feet beyond J Street on Southern Oregon Ply.

2. The following cars must not be operated between Cornutt and Hugo:

Wood Chip Cars
- SP-350100 to 350299 inclusive.
- SP-350410 to 350459 inclusive.
- SP-351010 to 351059 inclusive.
- SP-351600 to 351999 inclusive.
- SP-352000 Series
- SP-354000 Series
- SP-351298, SP-351967
- SSW-78000 Series

Veneer Cars
- SP-208161-H to 208208-H inclusive
- SP-208563-H
- SP-208572-H
- SP-208578-H
- SP-208594-H
- SP-208614-H
- SP-208631-H
- SP-208688-H
- SP-208745-H
- SP-208751-H
- SP-208825-H
- SP-208830-H
- SP-208851-H
- SP-208852-H
- SP-208869-H
- SP-208877-H
- SP-208880-H
- SP-208886-H
- SP-208890-H
- SP-208899-H
- SP-208917-H
- SP-208921-H
- SP-208943-H
- SP-208945-H
- SP-208959-H
- SP-208962-H
- SP-208996-H
- SP-209018-H
- SP-209030-H
- SP-209034-H
- SP-209048-H
- SP-209055-H
- SP-209083-H
- SP-209088-H
- SP-209527-H
- SP-213892-H to SP-213941-H
- SP-615082-H to 615131-H inclusive.

All cars eighty-five feet or longer, except see item 4.

3. The following cars must not be operated between Ashland and Hilt:

Wood Chip Cars
- SP-350100 to SP-350459 inclusive.
- SP-351010 to SP-351059 inclusive.
- SP-351400 to SP-351999 inclusive.
- SP-351298, SP 351967
- SP-352000 Series
- SP-354000 Series.
- SP-390000 Series
- SSW-78000 Series

All closed cars 60 feet or longer.

All cars 85 feet or longer, except see item 4.

4. 79 feet—89 feet TOFC cars may be handled provided load does not exceed following dimensions:

79 ft.-85 ft. cars maximum height 14′ 8″ ATR 8′ 8″ wide.

89 ft. cars maximum height 14′ 8″ ATR 8′ 0″ wide.

5. Load limit (car and contents):

Black Butte-Springfield Jct.	263,000 lbs.
White City-Tolo	263,000 lbs.

Unless authorized by Superintendent, heavier loads must not be handled.

6. LOCATION OF STOCK YARDS

Station	Capacity in cars
Grenada	8 (Water)

7.

LOCATION OF OVERHEAD AND SIDE STRUCTURES NOT STANDARD CLEARANCE ON MAIN TRACK AND SIDINGS

Mile Post	Location	Description	
390.90	Hornbrook	Klamath River bridge	Overhd & Side
411.30	Siskiyou	Tunnel No. 13	Overhd & Side
414.60	Siskiyou	Tunnel No. 14	Overhd & Side
415.20	Siskiyou	Tunnel No. 15	Overhd & Side
456.78	East of Tolo	Through Truss Rogue River	Overhd & Side
458.66	East of Gold Hill	Through Grinder Sardine Creek	Side
482.57	East of Merlin	Through Grinder Louse Creek	Side
490.60	East of Hugo	Tunnel No. 9	Overhd & Side
505.20	East of Wolf Creek	Tunnel No. 8	Overhd & Side
509.22	East of Glendale	Through Truss Cow Creek	Overhd & Side
514.10	East of Glendale	Tunnel No. 7	Overhd & Side
514.70	East of Glendale	Tunnel No. 6	Overhd & Side
515.70	East of Glendale	Tunnel No. 5	Overhd & Side
516.00	East of Glendale	Tunnel No. 4	Overhd & Side
518.60	East of Glendale	Tunnel No. 3	Overhd & Side
518.98	East of Glendale	Rock cut	Side
521.00	East of Glendale	Tunnel No. 2	Overhd & Side
521.06	East of Glendale	Through Truss Cow Creek	Overhd & Side
521.40	East of Glendale	West Fork Creek Crossing	Overhd & Side
523.85	East of Glendale	Rock cut	Side
525.02	East of Glendale	Rock cut	Side
526.70	East of Glendale	Rock cut	Side
526.73	East of Glendale	Rock cut	Side
526.91	East of Glendale	Rock cut	Side
528.11	East of Glendale	Rock cut	Side
530.80	East of Glendale	Tunnel No. 1	Overhd & Side
539.27	East of Byers	Rock cut	Side
550.12	East of Weaver	Through Truss S. Umpqua	Overhd & Side
578.01	East of Roseburg	Through Truss N. Umpqua	Overhd & Side
589.88	East of Oakland	Through Truss Calapooya	Overhd & Side
607.85	East of Yoncalla	Through Truss 1st Elk	Overhd & Side
608.62	East of Yoncalla	Through Truss 1st Pass Creek	Overhd & Side
610.71	East of Drain	Through Truss	Overhd & Side
620.16	East of Safley	Rock cut	Side
625.53	East of Latham	Through Truss 1st Coast Fork Willamette	Overhd & Side
627.39	East of Cottage Grove	Through Truss 2nd Coast Fork Willamette	Overhd & Side

8. Akin: Trainmen must not ride cars when spotting Winchester Plywood Co. chip track.

9. Akin: Impaired overhead and side clearance Evans Products Co.

SPECIAL INSTRUCTIONS—SISKIYOU SUBDIVISION

SPEED RESTRICTIONS FOR TRAINS: Maximum speed of trains in territory shown below is subject to further restrictions applicable to engines in the train as shown in SPEED RESTRICTIONS FOR ENGINES appearing on page 7 and MAXIMUM SPEED PERMITTED WITH CERTAIN EQUIPMENT, appearing on page 6 of Special Instructions for All Subdivisions. Speed must be further reduced as prescribed by speed signs, except as specifically authorized by Special Instructions herein, or by timetable bulletin.

All trains must run carefully during and after heavy storms, particularly when the track is apt to be affected. When fog, storms or other conditions obscure track or signals, speed of trains must be so reduced as to permit strict observance of signals and INSURE SAFETY, REGARDLESS OF TIME.

EASTWARD	PSGR TRAINS	FRT & MIXED
MP MP Column:	1	2
BLACK BUTTE TO SPRINGFIELD JCT.:		
345.20 to 348.00...	25	25
348.00 to 349.00...	20	20
349.00 to 355.60...	25	25
355.60 to 359.05...	35	35
359.05 to 360.83...	45	45
360.83 to 372.24...	50	50
372.24 to 374.00...	30	30
374.00 to 381.48...	40	40
381.48 to 391.20...	25	25
391.20 to 394.65...	35	35
394.65 to 424.39...	20	20
424.39 to 428.65...	30	30
***428.65 to 429.93...	20	20
429.93 to 430.79...	30	20
430.79 to 432.45...	30	25
***432.45 to 434.70...	35	35
434.70 to 436.80...	50	45
***436.80 to 437.30...	35	35
437.30 to 440.59...	50	45
***440.59 to 441.41...	20	20
***441.41 to 442.14...	15	15
***442.14 to 442.71...	20	20
442.71 to 445.60...	50	45
***445.60 to 445.80...	35	35
445.80 to 450.62...	50	45
450.62 to 451.46...	30	25
451.46 to 456.89...	30	30
***456.89 to 457.40...	35	35
457.40 to 462.03...	50	45
462.03 to 463.57...	45	45
***463.57 to 466.16...	50	45
466.16 to 470.29...	40	40
470.29 to 471.87...	50	40
***471.87 to 473.66...	35	35
***473.66 to 474.18...	20	20
***474.18 to 474.94...	25	25
474.94 to 482.10...	30	25
482.10 to 485.36...	50	40
485.36 to 507.50...	30	25
***507.50 to 508.01...	25	25
508.01 to 515.81...	30	25
515.81 to 516.13...	20	20
516.13 to 527.80...	25	20
527.80 to 528.17...	20	20
528.17 to 536.92...	30	25
536.92 to 539.40...	25	25
539.40 to 543.07...	45	40
543.07 to 543.90...	40	40
***543.90 to 544.30...	35	35
544.30 to 544.71...	40	35
544.71 to 550.30...	30	30
***550.30 to 550.50...	25	25
550.50 to 552.99...	30	30
552.99 to 554.05...	30	25
554.05 to 559.26...	30	30
559.26 to 559.61...	30	25
559.61 to 563.60...	30	30
563.60 to 565.11...	30	20
565.11 to 569.19...	45	35
569.19 to 571.77...	30	30
***571.77 to 572.48	25	25
***572.48 to 572.70	15	15
***572.70 to 573.86	25	25
573.86 to 577.83...	45	45
577.83 to 578.69...	40	40
578.69 to 584.70...	55	55
***584.70 to 586.70	35	35
586.70 to 586.90...	25	25
586.90 to 588.80...	30	30
***588.80 to 589.00	25	25
589.00 to 594.43...	30	30
594.43 to 600.39...	25	25
600.39 to 603.70...	30	30
***603.70 to 603.90	35	35
603.90 to 606.21...	40	40
***606.21 to 609.10	30	30
609.10 to 612.01...	40	35
612.01 to 613.17...	30	25
613.17 to 618.46...	40	40
618.46 to 621.20...	25	25
621.20 to 626.00...	40	40
***626.00 to 626.73	25	25
626.73 to 629.84...	35	30
629.84 to 630.40...	30	25
630.40 to 635.48...	50	50
***635.48 to 635.52	35	35
635.52 to 642.71...	50	50
642.71 to 644.60...	30	30
TOLO TO WHITE CITY:		
450.2 to 455.9....	..	25

WESTWARD	PSGR TRAINS	FRT & MIXED
MP MP Column:	1	2
SPRINGFIELD JCT. TO BLACK BUTTE:		
644.60 to 642.71...	30	30
642.71 to 635.52...	50	50
***635.52 to 635.48...	35	35
635.48 to 630.40...	50	50
630.40 to 629.84...	30	25
629.84 to 626.73...	35	30
***626.73 to 626.00...	25	25
626.00 to 621.20...	40	40
621.20 to 618.46...	25	25
618.46 to 613.17...	40	40
613.17 to 612.01...	30	25
612.01 to 609.10...	40	35
***609.10 to 606.21...	30	30
606.21 to 603.90...	40	40
***603.90 to 603.70...	35	35
603.70 to 600.39...	30	30
600.39 to 594.43...	25	25
594.43 to 589.00...	30	30
***589.00 to 588.80...	25	25
588.80 to 586.90...	30	30
586.90 to 586.70...	25	25
***586.70 to 584.70...	35	35
584.70 to 578.69...	55	55
578.69 to 577.83...	40	40
577.83 to 573.86...	45	45
***573.86 to 571.77...	25	25
571.77 to 569.19...	30	30
569.19 to 565.11...	45	35
565.11 to 563.60...	30	20
563.60 to 559.61...	30	30
559.61 to 559.26...	30	25
559.26 to 554.05...	30	30
554.05 to 552.99...	30	25
552.99 to 550.50...	30	30
***550.50 to 550.30...	25	25
550.30 to 544.71...	30	30
544.71 to 544.30...	40	35
***544.30 to 543.90...	35	35
543.90 to 543.07...	40	40
543.07 to 539.40...	45	40
539.40 to 536.92...	25	25
536.92 to 528.17...	30	25
528.17 to 527.80...	20	20
527.80 to 516.13...	25	20
516.13 to 515.81...	20	20
515.81 to 508.01...	30	25
***508.01 to 507.50	25	25
507.50 to 485.36...	30	25
485.36 to 482.10...	50	40
482.10 to 474.94...	30	25
***474.94 to 474.18	25	25
***474.18 to 473.66	20	20
***473.66 to 471.87	35	35
471.87 to 470.29...	50	40
470.29 to 466.16...	40	40
***466.16 to 463.57	50	45
463.57 to 462.03...	45	45
462.03 to 457.40...	50	45
***457.40 to 456.89	35	35
456.89 to 451.46...	30	30
451.46 to 450.62...	30	25
450.62 to 445.80...	50	45
***445.80 to 445.60	35	35
445.60 to 442.71...	50	45
***442.71 to 442.14	20	20
***442.14 to 441.41	15	15
***441.41 to 440.59	20	20
440.59 to 437.30...	50	45
***437.30 to 436.80	35	35
436.80 to 434.70...	50	45
***434.70 to 432.45	35	35
432.45 to 430.79...	30	25
430.79 to 429.93...	30	20
***429.93 to 428.65...	20	20
428.65 to 424.39...	30	30
424.39 to 394.65...	20	20
394.65 to 391.20...	35	35
391.20 to 381.48...	25	25
381.48 to 374.00...	40	40
374.00 to 372.24...	30	30
372.24 to 360.83...	50	50
360.83 to 359.05...	45	45
359.05 to 355.60...	35	35
355.60 to 349.00...	25	25
349.00 to 348.00...	20	20
348.00 to 345.20...	25	25
WHITE CITY TO TOLO:		
455.9 to 450.2....	..	25

***PUC Order.

Freight trains using retaining valves and light engines without dynamic brake in operation on descending grades between Ashland and Hornbrook must not exceed 15 MPH.

SPEED RESTRICTIONS FOR OTHER THAN MAIN TRACKS	With Caution Not Exceeding MPH
Through sidings, yard and other tracks, wyes, balloon tracks, crossovers and turnouts, except:...	15
Through slip switches......	10
Through turnouts on other than sidings........	10
On branches......	10
Hornbrook, wye......	10
Medford, GRC track......	4
Roseburg, U.S. Ply. lead......	7
Dole siding......	10

RATING OF ENGINES—In Units of 2000 Lbs. (Tons)

	NOMINAL CLASS	ENGINE NUMBERS	Black Butte and MP 353	Montague to MP 353 MP 353 to Hornbrook	Ashland to Hilt Hornbrook to Ashland	Hilt to Montague	Ashland to Grants Pass Divide to Drain	Grants Pass and Glendale Drain to Roseburg	Glendale to Roseburg	Roseburg to Divide	Divide to Springfield Jct.	Springfield Jct. to Divide	Roseburg to MP 522 Grants Pass to Ashland	MP 522 to Glendale	Tolo to White City
1	EF415A	352, 359-379, 6172-6189, 6191-6193, 6206-6382, 6384-6385, 6387, 6392, 6394-6440, 6443, 6463-6470	950	1600	475	1000	6050	800	1600	800	1875	1600	1600	1300	1000
2	EP415A	354-357, 6190, 6203, 6383, 6386, 6388-6391, 6393, 6441-6442, 6444-6461	....	....	....	....	4750	625	1200	650	1450	1200	1200	975	....
3	EF415B	535-539, 547-553, 8043-8090, 8099-8101, 8104, 8110, 8112, 8115-8117, 8119-8121, 8123-8124, 8140-8284, 8292, 8295, 8299-8300, 8305	950	1600	475	1000	6050	800	1600	800	1875	1600	1600	1300	1000
4	EP415B	540-545, 8091-8095, 8103, 8106-8109, 8111, 8114, 8118, 8122, 8126-8139, 8290-8291, 8293-8294, 8296-8298, 8301-8303	....	....	....	....	4750	625	1200	650	1450	1200	1200	975	....
5	ES406 AS407	1000-1032	285	660	165	365	4000	300	650	300	775	575	625	525	400
6	AS409	1200-1257	....	....	....	....	4000	600	1150	600	1375	1150	1150	950	725
7	AS410	1703-1720, 1766-1781, 1792-1845	455	1025	275	565	4000	475	1025	500	1200	900	975	825	775
8	BS412	2100-2120, 2126-2157	590	1400	365	730	4000	650	1400	675	1650	1400	1300	1125	775
9	FS412.	2350-2394	....	....	....	....	4000	600	1225	625	1450	1225	1225	1000	750
10	ES615 EF618	2700-2742, 3800-3966	1200	2600	775	1500	10000	1250	2600	1325	3100	2600	2600	2150	1400
11	AS618	2950-2970	1475	3075	950	1800	....	....	....	....	....	....	....	....	....
12	BS615 BS615B BS616 BS616B	4900-4902, 5208-5248, 5254-5278	975	2200	625	1225	5000	1100	3000	1325	3525	3000	3150	1775	1400
13	BS616 BS616B	4903-4905, 5252	....	....	....	....	5000	1400	3150	1400	3700	3150	3150	2575	1575
14	GS407	5100-5120	....	....	....	....	3000	425	850	425	1000	850	850	700	500
15	EP620A&B EP623A EP624A	6000-6004, 6017-6018, 6046-6054, 5900-5917	....	....	....	....	5500	650	1375	650	1625	1375	1375	1100	....
16	AP620A	6026-6045	....	....	....	....	5525	650	1400	675	1650	1400	1400	1125	....
17	EF625	6900-6928	1500	3275	975	1900	....	....	....	....	....	....	....	....	....
18	AF628	7100-7128	1650	3600	1075	2025	....	....	....	....	....	....	....	....	....

RULE 83-A. At following stations only the trains indicated will register:

Mapleton......Only trains instructed by train order.
Richardson....Only trains instructed by train order.

RULE 83-B. At open train order offices trains may register by ticket as follows:

Mapleton......All trains.

RULE 93. Yard limits in which the provisions of Rule 93 will apply are established at the following stations:

West MP		East MP
643.00	Eugene (Siskiyou Subdivision)	
	Eugene	652.29
764.28	Coos Bay	771.19
783.77	Coquille	787.50
794.02	Myrtle Point	795.36
801.91	Warner	802.95
806.75	Gaylord	808.10
811.85	Powers	

RULE 98. Railroad crossings at grade and drawbridges not interlocked:

Between Eugene Yard and Danebo...OERy crossing.
Coos Bay..............................Coalbank Slough.

RULE 99-C. Will apply on Coos Bay Branch.

RULE 104. The normal position of switches at junction points is as follows:

Eugene Yard........Coos Bay line, for yard track,

RULE 221. Coquille: Light will not be displayed in train-order signal except when train-order operator is on duty.

Reedsport: Train order office located on draw span of Umpqua River Bridge (MP-739).

INTERLOCKING

Reedsport Drawbridge Tower: Governs movement over Umpqua River drawbridge 0.6 miles west of Reedsport.

When interlocking signal located approximately 650 feet east of Umpqua River Bridge displays green aspect, it will authorize movement of trains between Reedsport and train order office on draw span, which will supersede the superiority of trains.

North Bend Drawbridge Tower: Governs movement over Coos Bay drawbridge 1.7 miles west of North Bend.

GENERAL REGULATIONS

RULE 872. Enginemen taking charge of engines at Eugene Terminal will consider engines as having been amply supplied and sanders operative.

MISCELLANEOUS

1. Only Engines and cars listed may operate on tracks shown below

Class of Engines	Restricted Tracks
No Engines	Mapleton — Beyond 792 ft. from switch on log loading spur, U.S. Plywood Corp.
" "	Kroll—Trestle on Crown Zellerbach log loading track.
No engines or cars	Reedsport—Beyond engine restriction signs on Umpqua River Navigation Co. hopper and log spur.
No engines	Rogers—Beyond sand chute.
No engines or loaded cars	North Bend—Old Town spur. Engines restricted beyond first road crossing.
No engines or cars	McCormac—Coos Bay Timber Co. (Georgia-Pacific Corp.) log dump tracks.
No engines or cars	Johnson — Coos Bay Timber Co. (Georgia-Pacific Corp.) log dump track and siding.

Reedsport: Do not switch cars under or through chip loader on U. S. Plywood Co. Track No. 2.

North Bend: Do not switch cars under or through chip loader on Weyerhaeuser Company chip spur.

2. Coquille-Gardner Jct.: Chip cars SP 352,000—SP 352017 are to be handled only between these locations unless otherwise advised by chief dispatcher.

3. Load limit (car and contents):

Eugene-Myrtle Point......................240,000 lbs.
Myrtle Point-Powers......................169,000 lbs.

Unless authorized by Superintendent, heavier loads must not be handled.

4.

LOCATION OF OVERHEAD AND SIDE STRUCTURES NOT STANDARD CLEARANCE ON MAIN TRACK AND SIDINGS

Mile Post	Location	Description	
664.87	East of Veneta	4th Crossing Long Tom Creek	Side
669.50	East of Vaughn	Tunnel No. 13	Overhd & Side
681.10	East of Vaughn	Tunnel No. 14	Overhd & Side
720.70	East of Cushman	Tunnel No. 15	Overhd & Side
721.50	East of Canary	Tunnel No. 16	Overhd & Side
727.70	East of Canary	Tunnel No. 17	Overhd & Side
734.50	East of Kroll	Tunnel No. 18	Overhd & Side
739.64	East of Gardiner Jct.	Umpqua River Crossing	Overhd & Side
745.60	East of Reedsport	Tunnel No. 19	Overhd & Side
750.10	East of Reedsport	Tunnel No. 20	Overhd & Side
751.20	East of Reedsport	Tunnel No. 21	Overhd & Side
763.64	East of Cordes	Coos Bay Crossing (dwarf signals)	Side
795.90	East of Myrtle Point	Coquille River Bridge (1)	Overhd & Sid
797.50	East of Estabrook	Coquille River Bridge (2)	Overhd & Side
802.70	East of Warner	Coquille River Bridge (8)	Overhd & Side
808.70	East of Gaylord	Rowland Creek Bridge (9)	Overhd & Side
809.30	East of Gaylord	Tunnel No. 1	Overhd & Side
813.30	East of Gaylord	Coquille River Bridge (14)	Overhd & Side

SPEED RESTRICTIONS FOR OTHER THAN MAIN TRACKS	With Caution Not Exceeding MPH
Through sidings, yard and other tracks, wyes, balloon tracks, crossovers and turnouts, except:	15
Through slip switches	10
Through turnouts on other than sidings	10
On branches	10

SPECIAL INSTRUCTIONS—COOS BAY SUBDIVISION

SPEED RESTRICTIONS FOR TRAINS: Maximum speed of trains in territory shown below is subject to further restrictions applicable to engines in the train as shown in SPEED RESTRICTIONS FOR ENGINES appearing on page 7 and MAXIMUM SPEED PERMITTED WITH CERTAIN EQUIPMENT, appearing on page 6 of Special Instructions for All Subdivisions. Speed must be further reduced as prescribed by speed signs, except as specifically authorized by Special Instructions herein, or by timetable bulletin.

All trains must run carefully during and after heavy storms, particularly when the track is apt to be affected. When fog, storms or other conditions obscure track or signals, speed of trains must be so reduced as to permit strict observance of signals and INSURE SAFETY, REGARDLESS OF TIME.

EASTWARD MP — MP	ALL TRAINS Column: 1	WESTWARD MP — MP	ALL TRAINS Column: 1
EUGENE TO POWERS:		POWERS TO EUGENE:	
648.40 to 651.10	30	***813.50 to 794.49	15
651.10 to 652.00	35	794.49 to 786.35	25
652.00 to 663.74	49	***786.35 to 785.65	10
663.74 to 665.35	40	785.65 to 768.90	25
665.35 to 668.27	30	***768.90 to 765.50	15
668.27 to 668.69	25	**765.50 to 763.95	20
668.69 to 670.07	30	763.95 to 763.37	15
670.07 to 672.01	40	763.37 to 757.56	49
672.01 to 674.09	30	757.56 to 757.39	40
674.09 to 677.53	40	757.39 to 753.21	45
677.53 to 678.06	30	753.21 to 752.94	35
678.06 to 680.39	40	752.94 to 751.33	45
680.39 to 698.52	30	751.33 to 751.20	25
698.52 to 703.50	40	751.20 to 750.30	45
703.50 to 703.62	30	750.30 to 750.10	25
703.62 to 712.00	40	750.10 to 749.52	45
712.00 to 716.11	35	749.52 to 746.50	40
716.11 to 716.43	30	746.50 to 744.70	30
***716.43 to 716.56	15	744.70 to 740.61	35
716.56 to 726.95	30	***740.61 to 740.25	10
726.95 to 727.68	35	740.25 to 739.64	15
727.68 to 727.95	25	739.64 to 734.79	35
727.95 to 733.38	35	734.79 to 734.46	25
733.38 to 733.55	30	734.46 to 733.55	35

EASTWARD MP — MP	ALL TRAINS Column: 1	WESTWARD MP — MP	ALL TRAINS Column: 1
EUGENE TO POWERS:		POWERS TO EUGENE:	
733.55 to 734.46	35	733.55 to 733.38	30
734.46 to 734.79	25	733.38 to 727.95	35
734.79 to 739.64	35	727.95 to 727.68	25
739.64 to 740.25	15	727.68 to 726.95	35
***740.25 to 740.61	10	726.95 to 716.56	30
740.61 to 744.70	35	***716.56 to 716.43	15
744.70 to 746.50	30	716.43 to 716.11	30
746.50 to 749.52	40	716.11 to 712.00	35
749.52 to 750.10	45	712.00 to 703.62	40
750.10 to 750.30	25	703.62 to 703.50	30
750.30 to 751.20	45	703.50 to 698.52	40
751.20 to 751.33	25	698.52 to 680.39	30
751.33 to 752.94	45	680.39 to 678.06	40
752.94 to 753.21	35	678.06 to 677.53	30
753.21 to 757.39	45	677.53 to 674.09	40
757.39 to 757.56	40	674.09 to 672.01	30
757.56 to 763.37	49	672.01 to 670.07	40
763.37 to 763.95	15	670.07 to 668.69	30
**763.95 to 765.50	20	668.69 to 668.27	25
***765.50 to 768.90	15	668.27 to 665.35	30
768.90 to 785.65	25	665.35 to 663.74	40
***785.65 to 786.35	10	663.74 to 652.00	49
786.35 to 794.49	25	652.00 to 651.10	35
***794.49 to 813.50	15	651.10 to 648.40	30

**ICC Regulation. ***PUC Order.

RATING OF ENGINES—In Units of 2000 Lbs. (Tons)

	NOMINAL CLASS	ENGINE NUMBERS	Eugene and Noti MP 700.6 and McCormac	Noti to MP 671.5 MP 700.6 to Vaughn	Vaughn to Noti MP 671.5 to MP 700.6	Coos Bay to Myrtle Point	Myrtle Point to Coos Bay	Myrtle Point to Powers	Powers to Myrtle Point
1	EF415A	352, 359-379, 6172-6189, 6191-6193, 6206-6382, 6384-6385, 6387, 6392, 6394-6440, 6443, 6463-6470	①3175	2400	6050				
2	EP415A	354-357, 6190, 6203, 6383, 6386, 6388-6391, 6393, 6441-6442, 6444-6461	①3175	2400	6050				
3	EF415B	535-539, 547-553, 8043-8090, 8099-8101, 8104, 8110, 8112, 8115-8117, 8119-8121, 8123-8124, 8140-8284, 8292, 8295, 8299-8300, 8305	①3175	2400	6050				
4	EP415B	540-545, 8091-8095, 8103, 8106, 8109, 8111, 8114, 8118, 8122, 8126-8139, 8290-8291, 8293-8294, 8296-8298, 8301-8303	①3175	2400	6050				
5	ES406, AS407	1000-1032	1350	1000	4000	400	400		
6	ES408 ES408B	1100-1128, 1150-1153	2800	2075	4000	950	900		
7	ES409	1170-1179				975	950		
8	AS409	1200-1257				800	750		
9	AS409	1270-1281				1100	1050		
10	AS410	1703-1720,1766-1781-1792-1845				875	800		
11	BS412	2100-2120,2126-2157				850	800		
12	FS412	2350-2394				825	775		
13	ES615, EF618	2700-2742-3800-3966	5475	4050	10000	1800	1725		
14	AS418	2900-2936	①4575	3350	8000				
15	EP418, EF418	3002-3003, 3008-3009, 3441-3550, 3571-3640, 3663-3727	①4650	3425	8000				
16	GS407	5100-5120	1725	1300	3000	575	550	500	1475

①Restricted to 15 MPH between Coos Bay and McCormac.

Georgia-Pacific engines may operate between Coos Bay and Powers except engine No. 11 must not operate between Myrtle Point and Coos Bay.

UNLESS AUTHORIZED BY SUPERINTENDENT, ENGINES WILL NOT BE PERMITTED TO OPERATE IN THOSE TERRITORIES WHERE NO RATING IS SHOWN IN ENGINE RATING TABLE.

RULE 83. Extra trains operating between Alturas and Lakeview or Wendel and Susanville, in addition to information required by the train register, must register destination of trip (turning point) and date of departure in the column captioned "Signals." When trip has been completed, date of arrival at initial station of trip must also be entered in column captioned "Signals." An extra train en route into these territories must not leave the initial station until it has been ascertained from the train register that all preceding Extra trains via the route to be used have completed their trip and registered time and date of arrival at initial station accordingly.

RULE 93. Yard limits in which the provisions of Rule 93 will apply, are established at the following points:

West MP		East MP
427.50	Klamath Falls	429.81
551.80	" (Modoc Subdivision)	
528.60	Tule Lake	530.40
454.93	Alturas	461.23
	" (Lakeview Branch)	460.19
421.70	Sage Hen	423.71
356.00	Wendel	360.08
	" (Westwood Branch)	359.65

RULE 97. Between the following locations extra trains moving in either direction are authorized to run extra without train order authority:

End of double track at Flanigan and Wendel.
Alturas and Lakeview.
Wendel and Susanville.

RULE D-97-A will apply as follows:

On both main tracks between Mile Post 336.5, Flanigan and interlocking limits Mile Post 337.7.

RULE 99. Will not apply between Alturas and Lakeview; Wendel and Susanville.

RULE 99-C. Will apply between Klamath Falls Yard and Wendel.

RULE 103-A. Public Utilities Commission orders prohibit operation of train, engine or car over the following crossings unless first brought to a stop and traffic on the highway protected by a member of the crew.

Tule Lake	First crossing west of station over spur track serving L & K Produce and Tule Lake Cold Storage, MP 529.40.
Lakeview	Western Avenue Crossing, MP 512.50.
Alturas	Main St. on Lakeview Branch.

RULE 104. The normal position of rigid switches at junctions is as follows:

Klamath Falls	GNRy main track, for SP main track,
Klamath Falls	Alturas line, to yard track No. 17, for Alturas line,
Klamath Falls	OC&ERy main track, for yard track,
Alturas	Lakeview Branch for Klamath Falls main track.
Wendel	For Alturas line.

RULE 221. WPRR train orders and clearances will be issued at Wendel to apply at Flanigan.

RULE D-251 will apply as follows:
On both main tracks between Mile Post 336.5, Flanigan and interlocking limits, Mile Post 337.9.

RULE 306. The following block signals equipped with triangular plate bearing the letter "P" have included in their control limits some special protective device. Interlocking signals are listed as "I" or "P-SA."

Eastward Signal	Protection	Westward Signal
P-SA P-SA	Spring switch, west end double track Flanigan	
	Spring switch, east end double track Flanigan	P-3379
	Spring switch, SP Co end WPRR connection	P-I
PI	High water detector bridge MP 345.68, between Herlong and Flanigan	P-I

AUTOMATIC BLOCK SIGNAL SYSTEM

Klamath Falls: Trains stopped by Signal 4292 may proceed immediately at restricted speed.

Signal 4278 at derail GNRy Bieber line, top unit governs from Bieber line to Cascade line main track; lower unit governs from Bieber line to GNRy line crossing Lake Ewauna.

Signal 4277 at derail from line crossing Lake Ewauna governs to GNRy Bieber line.

RULE 535. Spring switches not equipped with facing point locks are located as follows:

Location		Normal Position
*Alturas	Initial switch at west end of yard	Lead
Flanigan	West end double track, MP 336.5	Eastward track
Flanigan	East end WPRR connection, MP 336.5	WPRR main track
Flanigan	East end double track, MP 337.9	Westward track
*Wendel	Initial switch at west end of yard	Lead

*Equipped with switch-point indicator. Indicator does not indicate track occupancy, and will display green aspect when switch is lined for normal position. When indicator displays red aspect or unlighted, stop must be made and member of crew must examine and ascertain points are in proper position for movement before proceeding.

INTERLOCKING

Klamath Falls Yard: Limits of interlocking extend from westward interlocking signal opposite MP 427, 225 feet westward to eastward interlocking signal at MP 553.16 on Alturas line and 225 feet westward to eastward interlocking signal at MP 426.95 in Texum lead.

Wendel-Flanigan: Limits extend between eastward signal east end double track MP 337.7, Flanigan and westward signal MP 357.2, Wendel, and is under control of signal operator, Wendel.

Trains using switches at Herlong must occupy main track continuously or leave main track switch open while work is being performed. Tracks at Herlong must not be used for meeting or passing of trains.

Flanigan: Limits extend between westward interlocking signals end of double track, MP 336.5 to WPRR signal, MP 384.35 and to SP eastward signal MP 336.2. WPRR connection on WPRR is dual control switch.

Two-unit westward interlocking signal west end double track MP 336.5 governs movements as follows:

Top Unit	Via WPRR main track.
*Bottom Unit	Across WPRR main track via SP.

*Unit equipped with letter type indicator for display of letter "S" which must be illuminated for movements via SP across WPRR main track. When letter "S" is illuminated, crews of SP trains operating via SP will hand throw spring switch at east end of WPRR connection for movement across WPRR main track and when spring switch properly lined, bottom unit will display proceed indication.

Route selection of trains over WPRR crossing is under control of WPRR train dispatcher.

When trains are stopped by signals governing use of interlocking and no WPRR train can be seen approaching or moving through the interlocking, member of crew must consult with WPRR train dispatcher by telephone located at the crossing.

When instructed by WPRR train dispatcher to use emergency release, operate push button in iron box at crossing.

After push button is operated, red indicator light when displayed indicates time release is in operation. After time interval has elapsed yellow indicator light should be displayed, indicating signals on intersecting line display stop indication, and train may then proceed in accordance with Rule 663(c)

If yellow light is not displayed, train must proceed only after providing necessary protection on intersecting track as required by Rule 663(c).

Instructions for operating push button release posted inside of box at crossing.

AUTOMATIC INTERLOCKING

Stronghold: Crossing GNRy MP 525.4.

GENERAL REGULATIONS

RULE 812. SP trains are authorized to operate over WPRR tracks between Flanigan and Weso and paired track connection at Weso being governed by current rules, timetable, timetable bulletins and special instructions of WPRR. WPRR bulletins posted at Wendel.

RULE 825. Instructions for setting hand brakes. Klamath Falls and Klamath Falls Yard:

Passenger trains	Two brakes on west end.
Freight trains	Five brakes on west end.

Any employe releasing any of these brakes must set an equal number to replace them.

Staff brakes on freight trains must be set with the assistance of a brake club after train has stopped.

Klamath Falls Yard: Hand brakes will not be set on freight trains if outgoing crew takes charge of train on arrival or if inbound crew is advised by yardmaster that engine is not to be detached.

Klamath Falls: Hand brakes will not be set on passenger trains standing at the station unless engine is detached provided conductor has reached understanding that engineer will remain on engine.

RULE 827. Trains handling logs must stop and crew must inspect load and chains before entering yard at Klamath Falls.

With no dynamic brake in operation, eastward freight and mixed trains and light engines must stop at MP 430.00 for inspection.

With no dynamic brake in operation, westward freight and mixed trains and light engines must stop at MP 383.6 for inspection.

When retaining valves are used Sage Hen to Likely or Crest to Wendel, inspection must be made as prescribed by Rule 34.

RULE 842. Klamath Falls: Trains and engines approaching Klamath Falls Yard must not pass Signal 5528 unless flashing white light is displayed on mast of this signal. Flashing white light will authorize movement to east end of Track No. 17 where signal must be received from yardman before moving to receiving track.

AIR BRAKE RULES

RULE 17. Retaining valves will be used on descending grades as follows:

AMBROSE TO CANBY

Freight and Mixed Trains

With no dynamic brake in operation, one retaining valve for each 70 tons in train.

When dynamic brake is in operation and tonnage of train exceeds 900 tons per 4-axle unit or 1800 tons per 6-axle unit of dynamic brake, one retaining valve for each 150 tons in train. When dynamic brake is in operation and pressure maintaining system of braking is being used and tonnage of train exceeds 1800 tons per 4-axle unit or 2300 tons per 6-axle unit of dynamic brake, one retaining valve for each 150 tons in train.

Passenger Trains

With no dynamic brake in operation, all accessible retaining valves must be turned up.

SAGE HEN TO LIKELY
SAGE HEN TO MADELINE
CREST TO CARLO
MP 365.6 TO WENDEL

Freight and Mixed Trains

With no dynamic brake in operation, one retaining valve for each 80 tons in train.

When dynamic brake is in operation and tonnage of train exceeds 1100 tons per 4-axle unit or 2400 tons per 6-axle unit of dynamic brake, one retaining valve for each 150 tons in train. When dynamic brake is in operation and pressure maintaining system of braking is being used and tonnage of train exceeds 1800 tons per 4-axle unit or 2700 tons per 6-axle unit of dynamic brake, one retaining valve for each 150 tons in train.

Passenger Trains

With no dynamic brake in operation, two-thirds of the retaining valves must be turned up on trains of 12 or more cars.

RULE 24-B. Alturas and Wendel: When outgoing crew takes charge of train on arrival and continuity of brake pipe is not disturbed, incoming engineer will apply train brakes when stopped. Outgoing engineer will release brakes and proceed without making rear end or road test.

RULE 25. Will apply as designated below, except when conditions are favorable for releasing air brakes (Rule 29) while running, and engineer after informing trainman test is to be made approaching stations named, receives positive information following test that brakes did apply on caboose and brake pipe pressure is being restored:

Ambrose:	Westward
Sage Hen:	Both directions
Ravendale:	Westward when temperature is 32° or less

RULE 33. Maximum tonnage per operative brake is as follows:

Ambrose to Canby	80 tons
Sage Hen to Likely	80 tons
Crest to Karlo	80 tons

PASSENGER TRAINS

RULE 39. Running air brake test must be made at Sage Hen in both directions; and at Crest and MP 365.6 westward.

MISCELLANEOUS

1. Cars eighty-five feet or longer must not be handled over Western Starch Company, Inc., spur at Hatfield.

2. Cars or engines must not be moved beyond a point 500 feet from switch on R. L. Smith Lbr. Co. track at west end house track, Canby.

3. Load limit (car and contents):

Klamath Falls-Flanigan	315,000 pounds
Wendel-Susanville	240,000 pounds
Alturas-Lakeview	199,000 pounds

Unless authorized by Superintendent, heavier loads must not be handled.

4. LOCATION OF STOCK YARDS

Station	Capacity in cars
Klamath Falls	10 (Water)
Hackamore	25
Alturas	15 (Water)
Likely	15 (Water)
Madeline	10 (Water)

SPECIAL INSTRUCTIONS—MODOC SUBDIVISION

SPEED RESTRICTIONS FOR TRAINS: Maximum speed of trains in territory shown below is subject to further restrictions applicable to engines in the train as shown in SPEED RESTRICTIONS FOR ENGINES appearing on page 7 and MAXIMUM SPEED PERMITTED WITH CERTAIN EQUIPMENT, appearing on page 6 of Special Instructions for All Subdivisions. Speed must be further reduced as prescribed by speed signs, except as specifically authorized by Special Instructions herein, or by timetable bulletin.

All trains must run carefully during and after heavy storms, particularly when the track is apt to be affected. When fog, storms or other conditions obscure track or signals, speed of trains must be so reduced as to permit strict observance of signals and INSURE SAFETY, REGARDLESS OF TIME.

EASTWARD	ALL TRAINS	WESTWARD	ALL TRAINS
MP MP Column:	1	MP MP Column:	1
FLANIGAN TO KLAMATH FALLS:		KLAMATH FALLS TO FLANIGAN:	
336.39 to 337.93.....	20	428.70 to 427.00 (553.30).........	15
337.93 to 346.00.....	60	553.30 to 553.21.....	15
346.00 to 356.52.....	50	553.21 to 552.91.....	25
356.52 to 357.27.....	30	552.91 to 497.81.....	49
357.27 to 358.70.....	15	497.81 to 497.20.....	40
358.70 to 359.03.....	15	497.20 to 485.05.....	49
359.03 to 365.78.....	30	485.05 to 480.29.....	25
365.78 to 367.64.....	40	480.29 to 478.63.....	30
367.64 to 375.38.....	49	478.63 to 460.03.....	49
375.38 to 376.31.....	40		
376.31 to 380.03.....	35		
380.03 to 385.13.....	30	460.03 to 458.30.....	30
385.13 to 392.69.....	25	458.30 to 456.79 (Alturas).........	15
392.69 to 419.82.....	49	456.79 to 455.11.....	25
419.82 to 421.05.....	40	455.11 to 443.95.....	49
421.05 to 423.65.....	35	443.95 to 436.43.....	45
423.65 to 436.43.....	25	436.43 to 423.65.....	25
436.43 to 439.20.....	40	423.65 to 418.75.....	35
439.20 to 443.95.....	45	418.75 to 392.69.....	49
443.95 to 455.11.....	49	392.69 to 385.13.....	25
455.11 to 456.79.....	25	385.13 to 380.03.....	30
456.79 to 458.30 (Alturas).........	15		
458.30 to 460.03.....	30	380.03 to 375.38.....	35
460.03 to 478.63.....	49	375.38 to 367.64.....	49
478.63 to 480.29.....	40	367.64 to 365.78.....	40
480.29 to 485.05.....	25	365.78 to 359.03.....	30
485.05 to 497.20.....	49	359.03 to 358.70.....	15
497.20 to 497.81.....	40	358.70 to 357.27.....	15
497.81 to 552.91.....	49	357.27 to 346.00.....	50
552.91 to 553.21.....	25	346.00 to 337.26.....	60
553.21 to 553.30 (427.00).........	15	337.26 to 336.51.....	40
427.00 to 428.70.....	15	336.51 to 336.39.....	25

EASTWAD	ALL TRAINS	WESTWARD	ALL TRAINS
MP MP Column:	1	MP MP Column:	1
WENDEL TO SUSANVILLE:		SUSANVILLE TO WENDEL:	
358.70 to 359.03.....	15	381.90 to 379.23.....	20
359.03 to 379.23.....	25	379.23 to 359.03.....	25
379.23 to 381.90.....	20	359.03 to 358.70.....	15
ALTURAS TO LAKEVIEW:		LAKEVIEW TO ALTURAS:	
456.80 to 458.74.....	20	512.30 to 490.17.....	40
458.74 to 461.96.....	35	490.17 to 482.53.....	30
461.96 to 472.29.....	30	482.53 to 472.29.....	40
472.29 to 482.53.....	40	472.29 to 461.96.....	30
482.53 to 490.17.....	30	461.96 to 458.74.....	35
490.17 to 512.30.....	40	458.74 to 456.80.....	20

Between MP 460.03 (Alturas) and MP 478.63 (Canby) and on Lakeview Branch, maximum speed of trains as shown below must not be exceeded when handled by following engines subject to further restrictions shown in Speed Restrictions for Trains table: Lines 5, 6, and 7 on rating of engines table, page 39.... 25 MPH

SPEED RESTRICTIONS FOR OTHER THAN MAIN TRACKS	With Caution Not Exceeding MPH
Through sidings, yard and other tracks, wyes, balloon tracks, crossovers and turnouts, except:	15
Through turnouts on other than sidings.........	10
On branches.........................	10
Sage Hen, on balloon track..................	10

RATING OF ENGINES—In Units of 2000 Lbs. (Tons)

Nominal Class		Engine Numbers	Klamath Falls and Perez Canby and Alturas	Perez to Canby	Canby to Perez	Alturas and Lakeview	Likely to Sage Hen Wandel to MP365.6 Karlo to Crest	Sage Hen to Ravendale Crest to Karlo MP365.6 to Wendel	MP365.6 to Karlo Crest to Madeline Sage Hen to Alturas	Alturas to Likely Flanigan and Wendel	Ravendale to Crest Madeline to Sage Hen	Karlo to MP365.6	Wendel and Susanville
1	EF415A	352, 359-379, 6172-6189, 6191-6193, 6206-6382, 6384-6385, 6387, 6392, 6394-6440, 6443, 6463-6470	2200	1700	850	1325	1275	6050	6050	3150	1775	2250	3375
2	EP415A	354-357, 6190, 6203, 6383, 6386, 6388-6391, 6393, 6441-6442, 6444-6461	2200	1700	850	1325	1275	6050	6050	3150	1775	2250	3375
3	EF415B	535-539, 547-553, 8043-8090, 8099-8101, 8104, 8110, 8112, 8115-8117, 8119-8121, 8123-8124, 8140-8284, 8292, 8295, 8299-8300, 8305	2200	1700	850	1325	1275	6050	6050	3150	1775	2250	3375
4	EP415B	540-545, 8091-8095, 8103, 8106-8109, 8111, 8114, 8118, 8122, 8126-8139, 8290-8291, 8293-8294, 8296-8298, 8301-8303	2200	1700	850	1325	1275	6050	6050	3150	1775	2250	3375
5	ES406 AS407	1000-1032	925	660	285	550	400	4000	4000	1375	400	1375	1550
6	AS410	1703-1720, 1766-1781, 1792-1845	1425	1025	455	825	625	4000	4000	2050	625	2050	2325
7	BS412	2100-2120, 2126-2157	1825	1300	590	1050	750	4000	4000	2650	1075	2050	3050
8	ES615 EF618	2700-2742, 3800-3966	3700	2600	1200	1925	1525	10000	10000	5425	2850	3750	5100
9	AS618	2950-2970	4275	3075	1475	2525	......	......	......	......	......	......	......
10	EP418 EF418	3002-3003, 3008-3009, 3441-3550, 3571-3640, 3663-3727	2375	1700	825	......	1225	10000	4075	1850	2875	2800	4600
11	BS615 BS615B BS616 BS616B	4900-4902, 5208-5248, 5254-5278	3025	2150	975	2075	1250	5000	5000	4400	2050	3175	......
12	BS616 BS616B	4903-4905, 5252	......	......	......	2600	......	......	......	......	......	......	......

ON BRANCH LINES, UNLESS AUTHORIZED BY SUPERINTENDENT, ENGINES WILL NOT BE PERMITTED TO OPERATE IN THOSE TERRITORIES WHERE NO RATING IS SHOWN IN ENGINE RATING TABLE.

MODOC SUBDIVISION

EASTWARD					WESTWARD SECOND CLASS					
	Mile Post Location	STATIONS SIDING CAPACITIES AND FACILITIES	Station Number	Distance from Klamath Falls	551 Freight Arrive Daily	553 Freight Arrive Daily	555 Freight Arrive Daily	651 Freight Arrive Daily	653 Freight Arrive Daily	655 Freight Arrive Daily
	336.4	ABS { **FLANIGAN** IP } DT	08540	218.5						
	349.8	**HERLONG** I	08510	205.1						
	358.7	Yd. Lmts. TO-R **WENDEL** BKIYP	08398	196.2				AM 7.50	PM 3.50	PM 11.50
	374.7	101 **KARLO** P	08389	180.2				7.20	3.20	11.20
	392.5	115 **CREST** P	08378	162.4				6.35	2.35	10.35
	408.2 408.1	119 **MORAN** P	08359	146.7				6.10	2.10	10.10
	423.3	114 Yd. Lmts. **SAGE HEN** YP	08342	131.5				5.30	1.30	9.30
	438.7	114 TO **LIKELY** P	08325	116.1				4.31	12.31	8.31
	457.3 458.3	Yd. Lmts. TO-R **ALTURAS** BKWDYP	08170	97.5	AM 3.35	AM 11.35	PM 7.35	4.01 AM	12.01 PM	8.01 PM
	477.7	95 TO **CANBY** P	08147	78.1	3.05	11.05	7.05			
	485.4	74 **AMBROSE** P	08139	70.4	2.40	10.40	6.40			
	506.1	96 **PEREZ** YP	08115	49.7	1.16	9.16	5.16			
	524.3	70 **STRONGHOLD** IP	08049	31.5	12.53	8.53	4.53			
	529.7	38 Yd. Lmts. TO **TULE LAKE** P	08041	26.1	12.46	8.46	4.46			
	533.2	95 **HATFIELD** P	08037	22.6	12.41	8.41	4.41			
	537.9	70 **MERRILL** P	08027	17.9	12.35	8.35	4.35			
	547.1	70 **STUKEL** P	08015	8.7	12.20	8.20	4.20			
	555.0 428.7	Yd. Lmts. { TO-R **KLAMATH FALLS YARD** BDKIYP	06700	0.8	12.01 AM	8.01 AM	4.01 PM			
	429.5	R **KLAMATH FALLS** BDKTP	06540	0.0						
		(218.5)			Leave Daily	Leave Daily	Leave Daily	Leave Daily	Leave Daily	Leave Daily
					551	553	555	651	653	655

EAST-WARD	Mile Post Location	Lakeview Branch STATIONS SIDING CAPACITIES AND FACILITIES	Station Number	Distance from Lakeview	WEST-WARD
	458.3 456.8	Yd. Lmts. R **ALTURAS** BKWDYP	08170	55.5	
	512.3	**LAKEVIEW** YP	08265	0.0	
		(55.5)			

EAST-WARD Mile Post Location	Westwood Branch STATIONS SIDING CAPACITIES AND FACILITIES	Station Number	WEST-WARD Distance from Mason
358.7	Yd. Lmts. R **WENDEL** BKYP	08398	48.5
381.9	**SUSANVILLE** P	08427	25.3
400.1	15 **WESTWOOD JCT.** P	08445	7.1
407.2	**MASON** P	08455	0.0
	(48.5)		
407.2	**MASON**	08455	
411.3	**WESTWOOD**	08460	

RULE 5. Time at Alturas applies at train-order office.

ADDITIONAL STATIONS

Capacity and Direction of entry into Spurs		Mile Post	NAME	Station Number
			Alturas line	
25W	P	397.9	Ravendale . . . . . (Spur)	08372
35E	P	418.9	Madeline . . . . . (Spur)	08347
13E	P	443.6	Bayley . . . . (Spur)	08319
9W	P	446.4	McArthur . . . . . (Spur)	08315
59	P	459.9	Juniper	08165
22E	..	520.3	Copic . . . . (Spur)	08056
36E	P	522.0	Staley . . . . . . (3 Spurs)	08053
..	..	527.7	Tuber.	08044
50	..	536.0	Malone	08030
13W	..	541.1	Lost River . . . . . (Spur)	08023
25E	..	543.8	Hosley . . . . (Spur)	08019
4E	..	548.1	Gem . . . . (Spur)	08013
5E	..	550.3	Spring Lake . . . (Spur)	08010
			Lakeview Branch	
..	..	478.6	Davis Creek	08225
			Westwood Branch	
13W	P	367.1	Litchfield . . . . (Spur)	08410
10E	P	374.9	Leavitt . . . . (Spur)	08419
16E	P	394.8	Goumaz . . . . (Spur)	08440